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Electron Impact Ionization Data for Atoms and Ions -up-dated in 1998-

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Electron Impact Ionization Data for Atoms and Ions
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Abstract

Ionization cross section data for neutral atoms and (positive and negative) ions have been compiled and shown in a series of figures. The present survey has included those published up to mid-1998.

[keywords : ionization cross section, ion, atom, electron impact]

1. Introduction

In a previous compilation we had shown the electron impact ionization cross section data for neutral atoms and ions including multiply charged ions taken up to around 1988[1,2]. Since then, a number of new experimental and theoretical investigations are continuously providing important data for such ionization processes. Their references are given in recent papers[3-5].

In this report we summarize the present situation (mid-1998) of electron impact ionization cross section data for neutral atoms and negative as well as positive ions ranging from H to U. Usually the ionization collisions accompanied with n electrons removed from an ion with the charge q, A^{q+}, can be expressed in the following form :

$$e + A^{q+} \rightarrow e + A^{(q+n)+} + n^*e \qquad (1)$$

whose cross section is expressed with σ_n.

The partial ionization cross sections σ_n are determined through measuring the ionized secondary ion fraction over the initial ion intensity. In neutral gas (vapor) targets, the incident electrons pass through the target gases. But for ion targets we need a series of advanced techniques, so-called crossed-beams technique where the incident electron beam crosses the fast-moving target ions whose effective densities are very low, usually equivalent to less than 10^{-10} Torr, thus requiring ultra-high vacuum systems.

Some experimental data were also taken through so-called condenser plate technique which provides the apparent ionization cross sections as follows :

$$\sigma_{app} = \Sigma n\sigma_n. \qquad (2)$$

Note that the cross section, σ_{app}, differs from the sum of he partial ionization cross section $\Sigma\sigma_n$.

Here, without giving any detailed description of various ionization processes (see books and summaries[6-7]), we give the ionization cross sections by electron impact in graphical forms, together with relevant bibliographic reference data.

2. Explanation of data for ionization by electron impact

The compiled ionization cross section data for various atoms and ions with different charge under electron impact are given in Figs.1-441 as a function of the electron impact energy. The notations after references, T and E, denote theoretical and experimental investigations, respectively.

It is important to note some differences of these data shown in these figures :

a) In some of these figures (in particular where data look scattered), data for the state-selected product ions are given (see Fig.126 for Ar atoms), by measuring the energy loss of the incident electrons.

b) Some theoretical calculations involving the inner-shell electron ionization had been performed. If one of the inner-shell electrons is ionized, the final charge state of the ionized target ions/atoms may

not increase by unity, as noted in figures, because the inner-shell electron ionization usually follows a series of autoionization or Auger electron emission, losing a few electrons. These data are accompanied with some notations on the (intermediate) electronic state just after ionization (without giving any information on the final charge states of product ions) (see Fig.125 for Ar atoms).

c) Also some theoretical cross sections are given for the metastable or excited state target ions (see Fig.232 for Ni^{10+} ions), though in most cases they correspond to ions in the ground state state.

d) Some ionization data are given as "sum" or "Σ" ("Sum He^{n+}" at the top or "ΣHe^{n+}" at the fugure caption in Fig.5 for He atoms) which are taken through a condenser-plate technique and, therefore, represent "the apparent ionization cross section, σ_{app}" (see eq. (2)).

These data can be accessible through WWW (free of charge) at

http://shino.nifs.ac.jp

where the ID can be obtained electronically (taking a few weeks after application). Then the databases can be accessed at

http://amdata.nifs.ac.jp

where the data can be acquired in plotted graphical forms and also in numerical forms, together with bibliographic references.

3) List of references

The references relevant to the compiled ionization cross section data are list in alphabetical order of the first author in the following table which are taken from NIFS databases.

Acknowledgements

The present authors would like to thank the members of Data & Planning Center, NIFS, for their continuous effort for developing databases.

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Fig. 1 $H^- \rightarrow H^0$
Fig. 2 $H^- \rightarrow H^+$
Fig. 3 $H \rightarrow H^+$
Fig. 4 $H(2s) \rightarrow H^+$
Fig. 5 $He \rightarrow \Sigma He^{n+}$
Fig. 6 $He \rightarrow He^+$
Fig. 7 $He(1s2s) \rightarrow He^+$
Fig. 8 $He \rightarrow He^{2+}$
Fig. 9 $He^+ \rightarrow He^{2+}$
Fig. 10 $Li \rightarrow \Sigma Li^{n+}$
Fig. 11 $Li \rightarrow Li^+$
Fig. 12 $Li \rightarrow Li^{2+}$
Fig. 13 $Li^+ \rightarrow Li^{2+}$
Fig. 14 $Li^+ \rightarrow Li^{3+}$
Fig. 15 $Li^{2+} \rightarrow Li^{3+}$
Fig. 16 $Be^+ \rightarrow Be^{2+}$
Fig. 17 $B \rightarrow B^+$
Fig. 18 $B^+ \rightarrow B^{2+}$
Fig. 19 $B^{2+} \rightarrow B^{3+}$
Fig. 20 $B^{3+} \rightarrow B^{4+}$
Fig. 21 $C^- \rightarrow C^0$
Fig. 22 $C \rightarrow C^+$
Fig. 23 $C^+ \rightarrow C^{2+}$
Fig. 24 $C^+ \rightarrow C^{3+}$
Fig. 25 $C^{2+} \rightarrow C^{3+}$
Fig. 26 $C^{3+} \rightarrow C^{4+}$
Fig. 27 $C^{4+} \rightarrow C^{5+}$
Fig. 28 $C^{5+} \rightarrow C^{6+}$
Fig. 29 $N \rightarrow \Sigma N^{n+}$
Fig. 30 $N \rightarrow N^+$
Fig. 31 $N^+ \rightarrow N^{2+}$
Fig. 32 $N^+ \rightarrow N^{3+}$
Fig. 33 $N^{2+} \rightarrow N^{3+}$
Fig. 34 $N^{3+} \rightarrow N^{4+}$
Fig. 35 $N^{4+} \rightarrow N^{5+}$
Fig. 36 $N^{5+} \rightarrow N^{6+}$
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Fig. 38 $O^- \rightarrow O^0$
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Fig. 40 $O \rightarrow O^+$
Fig. 41 $O \rightarrow O^{2+}$
Fig. 42 $O^+ \rightarrow O^{2+}$
Fig. 43 $O^+ \rightarrow O^{3+}$
Fig. 44 $O^{2+} \rightarrow O^{3+}$
Fig. 45 $O^{3+} \rightarrow O^{4+}$
Fig. 46 $O^{4+} \rightarrow O^{5+}$
Fig. 47 $O^{5+} \rightarrow O^{6+}$
Fig. 48 $O^{6+} \rightarrow O^{7+}$
Fig. 49 $O^{7+} \rightarrow O^{8+}$
Fig. 50 $F^- \rightarrow F^0$
Fig. 51 $F \rightarrow F^+$
Fig. 52 $F^+ \rightarrow F^{2+}$
Fig. 53 $F^{2+} \rightarrow F^{3+}$
Fig. 54 $F^{5+} \rightarrow F^{6+}$
Fig. 55 $Ne \rightarrow \Sigma Ne^{n+}$
Fig. 56 $Ne \rightarrow Ne^+$
Fig. 57 $Ne \rightarrow Ne^{2+}$
Fig. 58 $Ne \rightarrow Ne^{3+}$
Fig. 59 $Ne \rightarrow Ne^{4+}$
Fig. 60 $Ne \rightarrow Ne^{5+}$
Fig. 61 $Ne^+ \rightarrow Ne^{2+}$
Fig. 62 $Ne^+ \rightarrow Ne^{3+}$
Fig. 63 $Ne^{2+} \rightarrow Ne^{3+}$
Fig. 64 $Ne^{3+} \rightarrow Ne^{4+}$
Fig. 65 $Ne^{4+} \rightarrow Ne^{5+}$
Fig. 66 $Ne^{5+} \rightarrow Ne^{6+}$
Fig. 67 $Ne^{6+} \rightarrow Ne^{7+}$
Fig. 68 $Ne^{7+} \rightarrow Ne^{8+}$
Fig. 69 $Ne^{8+} \rightarrow Ne^{9+}$
Fig. 70 $Ne^{9+} \rightarrow Ne^{10+}$
Fig. 71 $Na \rightarrow \Sigma Na^{n+}$
Fig. 72 $Na \rightarrow Na^+$
Fig. 73 $Na \rightarrow Na^{2+}$
Fig. 74 $Na^+ \rightarrow Na^{2+}$
Fig. 75 $Na^+ \rightarrow Na^{3+}$
Fig. 76 $Na^{2+} \rightarrow Na^{3+}$
Fig. 77 $Na^{9+} \rightarrow Na^{10+}$
Fig. 78 $Mg \rightarrow \Sigma Mg^{n+}$
Fig. 79 $Mg \rightarrow Mg^+$
Fig. 80 $Mg \rightarrow Mg^{2+}$
Fig. 81 $Mg \rightarrow Mg^{3+}$
Fig. 82 $Mg \rightarrow Mg^{4+}$
Fig. 83 $Mg^+ \rightarrow Mg^{2+}$
Fig. 84 $Mg^{2+} \rightarrow Mg^{3+}$
Fig. 85 $Mg^{9+} \rightarrow Mg^{10+}$
Fig. 86 $Al \rightarrow \Sigma Al^{n+}$
Fig. 87 $Al \rightarrow Al^+$
Fig. 88 $Al^+ \rightarrow Al^{2+}$
Fig. 89 $Al^{2+} \rightarrow Al^{3+}$
Fig. 90 $Al^{3+} \rightarrow Al^{4+}$
Fig. 91 $Al^{4+} \rightarrow Al^{5+}$
Fig. 92 $Al^{5+} \rightarrow Al^{6+}$
Fig. 93 $Al^{6+} \rightarrow Al^{7+}$
Fig. 94 $Al^{7+} \rightarrow Al^{8+}$
Fig. 95 $Al^{8+} \rightarrow Al^{9+}$
Fig. 96 $Al^{9+} \rightarrow Al^{10+}$
Fig. 97 $Al^{10+} \rightarrow Al^{11+}$
Fig. 98 $Al^{11+} \rightarrow Al^{12+}$
Fig. 99 $Si \rightarrow Si^+$
Fig. 100 $Si \rightarrow Si^{2+}$
Fig. 101 $Si^+ \rightarrow Si^{2+}$
Fig. 102 $Si^{2+} \rightarrow Si^{3+}$
Fig. 103 $Si^{3+} \rightarrow Si^{4+}$
Fig. 104 $Si^{4+} \rightarrow Si^{5+}$
Fig. 105 $Si^{5+} \rightarrow Si^{6+}$
Fig. 106 $Si^{6+} \rightarrow Si^{7+}$
Fig. 107 $Si^{7+} \rightarrow Si^{8+}$
Fig. 108 $P \rightarrow P^+$
Fig. 109 $P \rightarrow P^{2+}$
Fig. 110 $P^+ \rightarrow P^{2+}$
Fig. 111 $P^{4+} \rightarrow P^{5+}$
Fig. 112 $S \rightarrow S^+$
Fig. 113 $S \rightarrow S^{2+}$
Fig. 114 $S \rightarrow S^{3+}$
Fig. 115 $S \rightarrow S^{4+}$
Fig. 116 $S^+ \rightarrow S^{2+}$
Fig. 117 $S^{2+} \rightarrow S^{3+}$
Fig. 118 $S^{4+} \rightarrow S^{5+}$
Fig. 119 $Cl \rightarrow Cl^+$
Fig. 120 $Cl \rightarrow Cl^{2+}$
Fig. 121 $Cl^+ \rightarrow Cl^{2+}$
Fig. 122 $Cl^{2+} \rightarrow Cl^{3+}$
Fig. 123 $Cl^{5+} \rightarrow Cl^{6+}$
Fig. 124 $Ar \rightarrow \Sigma Ar^{n+}$
Fig. 125 $Ar \rightarrow Ar^+$
Fig. 126 $Ar \rightarrow Ar^{2+}$
Fig. 127 $Ar \rightarrow Ar^{3+}$
Fig. 128 $Ar \rightarrow Ar^{4+}$
Fig. 129 $Ar \rightarrow Ar^{5+}$
Fig. 130 $Ar \rightarrow Ar^{6+}$
Fig. 131 $Ar \rightarrow Ar^{7+}$
Fig. 132 $Ar^+ \rightarrow Ar^{2+}$
Fig. 133 $Ar^+ \rightarrow Ar^{3+}$
Fig. 134 $Ar^+ \rightarrow Ar^{4+}$
Fig. 135 $Ar^+ \rightarrow Ar^{5+}$
Fig. 136 $Ar^{2+} \rightarrow Ar^{3+}$
Fig. 137 $Ar^{2+} \rightarrow Ar^{4+}$
Fig. 138 $Ar^{2+} \rightarrow Ar^{5+}$
Fig. 139 $Ar^{3+} \rightarrow Ar^{4+}$
Fig. 140 $Ar^{3+} \rightarrow Ar^{5+}$
Fig. 141 $Ar^{4+} \rightarrow Ar^{5+}$
Fig. 142 $Ar^{4+} \rightarrow Ar^{6+}$
Fig. 143 $Ar^{5+} \rightarrow Ar^{6+}$
Fig. 144 $Ar^{6+} \rightarrow Ar^{7+}$
Fig. 145 $Ar^{6+} \rightarrow Ar^{8+}$
Fig. 146 $Ar^{7+} \rightarrow Ar^{8+}$
Fig. 147 $Ar^{7+} \rightarrow Ar^{9+}$
Fig. 148 $Ar^{8+} \rightarrow Ar^{9+}$
Fig. 149 $Ar^{10+} \rightarrow Ar^{11+}$
Fig. 150 $Ar^{11+} \rightarrow Ar^{12+}$
Fig. 151 $Ar^{12+} \rightarrow Ar^{13+}$
Fig. 152 $Ar^{14+} \rightarrow Ar^{15+}$
Fig. 153 $Ar^{15+} \rightarrow Ar^{16+}$
Fig. 154 $Ar^{16+} \rightarrow Ar^{17+}$
Fig. 155 $Ar^{17+} \rightarrow Ar^{18+}$
Fig. 156 $K \rightarrow \Sigma K^{n+}$
Fig. 157 $K \rightarrow K^+$
Fig. 158 $K^+ \rightarrow K^{2+}$
Fig. 159 $K^+ \rightarrow K^{3+}$
Fig. 160 $K^{2+} \rightarrow K^{3+}$
Fig. 161 $Ca \rightarrow \Sigma Ca^{n+}$
Fig. 162 $Ca \rightarrow Ca^+$
Fig. 163 $Ca \rightarrow Ca^{2+}$
Fig. 164 $Ca^+ \rightarrow Ca^{2+}$
Fig. 165 $Ca^{2+} \rightarrow Ca^{3+}$
Fig. 166 $Ca^{9+} \rightarrow Ca^{10+}$
Fig. 167 $Sc^{2+} \rightarrow Sc^{3+}$
Fig. 168 $Sc^{3+} \rightarrow Sc^{4+}$
Fig. 169 $Sc^{4+} \rightarrow Sc^{5+}$
Fig. 170 $Sc^{5+} \rightarrow Sc^{6+}$
Fig. 171 $Sc^{6+} \rightarrow Sc^{7+}$
Fig. 172 $Sc^{7+} \rightarrow Sc^{8+}$
Fig. 173 $Sc^{8+} \rightarrow Sc^{9+}$
Fig. 174 $Sc^{9+} \rightarrow Sc^{10+}$
Fig. 175 $Ti \rightarrow Ti^+$
Fig. 176 $Ti^+ \rightarrow Ti^{2+}$
Fig. 177 $Ti^{2+} \rightarrow Ti^{3+}$
Fig. 178 $Ti^{3+} \rightarrow Ti^{4+}$
Fig. 179 $Ti^{5+} \rightarrow Ti^{6+}$
Fig. 180 $Ti^{11+} \rightarrow Ti^{12+}$
Fig. 181 $Ti^{19+} \rightarrow Ti^{20+}$
Fig. 182 $V^{5+} \rightarrow V^{6+}$
Fig. 183 $V^{20+} \rightarrow V^{21+}$
Fig. 184 $Cr \rightarrow Cr^+$
Fig. 185 $Cr^+ \rightarrow Cr^{2+}$
Fig. 186 $Cr^{6+} \rightarrow Cr^{7+}$
Fig. 187 $Cr^{7+} \rightarrow Cr^{8+}$
Fig. 188 $Cr^{8+} \rightarrow Cr^{9+}$
Fig. 189 $Cr^{10+} \rightarrow Cr^{11+}$
Fig. 190 $Cr^{13+} \rightarrow Cr^{14+}$
Fig. 191 $Cr^{21+} \rightarrow Cr^{22+}$
Fig. 192 $Mn^{22+} \rightarrow Mn^{23+}$
Fig. 193 $Fe \rightarrow Fe^+$
Fig. 194 $Fe \rightarrow Fe^{2+}$
Fig. 195 $Fe \rightarrow Fe^{3+}$
Fig. 196 $Fe \rightarrow Fe^{4+}$
Fig. 197 $Fe^+ \rightarrow Fe^{2+}$
Fig. 198 $Fe^{2+} \rightarrow Fe^{3+}$
Fig. 199 $Fe^{3+} \rightarrow Fe^{4+}$
Fig. 200 $Fe^{4+} \rightarrow Fe^{5+}$
Fig. 201 $Fe^{5+} \rightarrow Fe^{6+}$
Fig. 202 $Fe^{6+} \rightarrow Fe^{7+}$
Fig. 203 $Fe^{7+} \rightarrow Fe^{8+}$
Fig. 204 $Fe^{8+} \rightarrow Fe^{9+}$
Fig. 205 $Fe^{9+} \rightarrow Fe^{10+}$
Fig. 206 $Fe^{10+} \rightarrow Fe^{11+}$
Fig. 207 $Fe^{11+} \rightarrow Fe^{12+}$
Fig. 208 $Fe^{12+} \rightarrow Fe^{13+}$
Fig. 209 $Fe^{13+} \rightarrow Fe^{14+}$
Fig. 210 $Fe^{14+} \rightarrow Fe^{15+}$
Fig. 211 $Fe^{15+} \rightarrow Fe^{16+}$
Fig. 212 $Fe^{16+} \rightarrow Fe^{17+}$
Fig. 213 $Fe^{17+} \rightarrow Fe^{18+}$
Fig. 214 $Fe^{18+} \rightarrow Fe^{19+}$
Fig. 215 $Fe^{19+} \rightarrow Fe^{20+}$
Fig. 216 $Fe^{20+} \rightarrow Fe^{21+}$
Fig. 217 $Fe^{21+} \rightarrow Fe^{22+}$
Fig. 218 $Fe^{22+} \rightarrow Fe^{23+}$
Fig. 219 $Fe^{23+} \rightarrow Fe^{24+}$
Fig. 220 $Fe^{24+} \rightarrow Fe^{25+}$
Fig. 221 $Fe^{25+} \rightarrow Fe^{26+}$
Fig. 222 $Ni \rightarrow Ni^+$
Fig. 223 $Ni^+ \rightarrow Ni^{2+}$
Fig. 224 $Ni^{2+} \rightarrow Ni^{3+}$
Fig. 225 $Ni^{3+} \rightarrow Ni^{4+}$
Fig. 226 $Ni^{4+} \rightarrow Ni^{5+}$
Fig. 227 $Ni^{5+} \rightarrow Ni^{6+}$

Fig. 228 $Ni^{6+} \rightarrow Ni^{7+}$
Fig. 229 $Ni^{7+} \rightarrow Ni^{8+}$
Fig. 230 $Ni^{8+} \rightarrow Ni^{9+}$
Fig. 231 $Ni^{9+} \rightarrow Ni^{10+}$
Fig. 232 $Ni^{10+} \rightarrow Ni^{11+}$
Fig. 233 $Ni^{11+} \rightarrow Ni^{12+}$
Fig. 234 $Ni^{12+} \rightarrow Ni^{13+}$
Fig. 235 $Ni^{13+} \rightarrow Ni^{14+}$
Fig. 236 $Ni^{14+} \rightarrow Ni^{15+}$
Fig. 237 $Ni^{15+} \rightarrow Ni^{16+}$
Fig. 238 $Ni^{16+} \rightarrow Ni^{17+}$
Fig. 239 $Ni^{17+} \rightarrow Ni^{18+}$
Fig. 240 $Cu \rightarrow \Sigma Cu^{n+}$
Fig. 241 $Cu \rightarrow Cu^{+}$
Fig. 242 $Cu \rightarrow Cu^{2+}$
Fig. 243 $Cu \rightarrow Cu^{3+}$
Fig. 244 $Cu \rightarrow Cu^{4+}$
Fig. 245 $Cu \rightarrow Cu^{5+}$
Fig. 246 $Cu^{2+} \rightarrow Cu^{3+}$
Fig. 247 $Cu^{3+} \rightarrow Cu^{4+}$
Fig. 248 $Zn \rightarrow \Sigma Zn^{n+}$
Fig. 249 $Zn \rightarrow Zn^{+}$
Fig. 250 $Zn^{+} \rightarrow Zn^{2+}$
Fig. 251 $Zn^{19+} \rightarrow Zn^{20+}$
Fig. 252 $Ga \rightarrow Ga^{+}$
Fig. 253 $Ga \rightarrow Ga^{2+}$
Fig. 254 $Ga \rightarrow Ga^{3+}$
Fig. 255 $Ga \rightarrow Ga^{4+}$
Fig. 256 $Ga^{+} \rightarrow Ga^{2+}$
Fig. 257 $Ge \rightarrow Ge^{+}$
Fig. 258 $Ge \rightarrow Ge^{2+}$
Fig. 259 $Ge \rightarrow Ge^{3+}$
Fig. 260 $As \rightarrow As^{+}$
Fig. 261 $As \rightarrow As^{2+}$
Fig. 262 $As \rightarrow As^{3+}$
Fig. 263 $Se \rightarrow Se^{+}$
Fig. 264 $Se \rightarrow Se^{2+}$
Fig. 265 $Se \rightarrow Se^{3+}$
Fig. 266 $Se^{+} \rightarrow Se^{2+}$
Fig. 267 $Br \rightarrow Br^{+}$
Fig. 268 $Br \rightarrow Br^{2+}$
Fig. 269 $Br \rightarrow Br^{3+}$
Fig. 270 $Kr \rightarrow \Sigma Kr^{n+}$
Fig. 271 $Kr \rightarrow Kr^{+}$
Fig. 272 $Kr \rightarrow Kr^{2+}$
Fig. 273 $Kr \rightarrow Kr^{3+}$
Fig. 274 $Kr \rightarrow Kr^{4+}$
Fig. 275 $Kr \rightarrow Kr^{5+}$
Fig. 276 $Kr \rightarrow Kr^{6+}$
Fig. 277 $Kr \rightarrow Kr^{7+}$
Fig. 278 $Kr \rightarrow Kr^{8+}$
Fig. 279 $Kr \rightarrow Kr^{9+}$
Fig. 280 $Kr^{+} \rightarrow Kr^{2+}$
Fig. 281 $Kr^{+} \rightarrow Kr^{3+}$
Fig. 282 $Kr^{+} \rightarrow Kr^{4+}$
Fig. 283 $Kr^{2+} \rightarrow Kr^{3+}$
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Fig. 288 $Kr^{4+} \rightarrow Kr^{5+}$
Fig. 289 $Kr^{4+} \rightarrow Kr^{6+}$
Fig. 290 $Kr^{5+} \rightarrow Kr^{6+}$
Fig. 291 $Kr^{7+} \rightarrow Kr^{8+}$
Fig. 292 $Kr^{8+} \rightarrow Kr^{9+}$
Fig. 293 $Kr^{18+} \rightarrow Kr^{19+}$
Fig. 294 $Rb \rightarrow \Sigma Rb^{n+}$
Fig. 295 $Rb \rightarrow Rb^{+}$
Fig. 296 $Rb^{+} \rightarrow Rb^{2+}$
Fig. 297 $Rb^{+} \rightarrow Rb^{3+}$
Fig. 298 $Rb^{+} \rightarrow Rb^{4+}$
Fig. 299 $Rb^{+} \rightarrow Rb^{5+}$
Fig. 300 $Sr \rightarrow \Sigma Sr^{n+}$
Fig. 301 $Sr \rightarrow Sr^{+}$
Fig. 302 $Sr \rightarrow Sr^{2+}$
Fig. 303 $Sr^{+} \rightarrow Sr^{2+}$
Fig. 304 $Zr \rightarrow Zr^{+}$
Fig. 305 $Zr^{3+} \rightarrow Zr^{4+}$
Fig. 306 $Mo \rightarrow Mo^{+}$
Fig. 307 $Mo^{+} \rightarrow Mo^{2+}$
Fig. 308 $Mo^{4+} \rightarrow Mo^{5+}$
Fig. 309 $Mo^{5+} \rightarrow Mo^{6+}$
Fig. 310 $Mo^{14+} \rightarrow Mo^{15+}$
Fig. 311 $Mo^{24+} \rightarrow Mo^{25+}$
Fig. 312 $Mo^{32+} \rightarrow Mo^{33+}$
Fig. 313 $Ru \rightarrow Ru^{+}$
Fig. 314 $Pd \rightarrow Pd^{+}$
Fig. 315 $Ag \rightarrow \Sigma Ag^{n+}$
Fig. 316 $Ag \rightarrow Ag^{+}$
Fig. 317 $Ag \rightarrow Ag^{2+}$
Fig. 318 $Ag \rightarrow Ag^{3+}$
Fig. 319 $Ag^{46+} \rightarrow Ag^{47+}$
Fig. 320 $Cd \rightarrow \Sigma Cd^{n+}$
Fig. 321 $Cd \rightarrow Cd^{+}$
Fig. 322 $Cd^{+} \rightarrow Cd^{2+}$
Fig. 323 $In \rightarrow \Sigma In^{n+}$
Fig. 324 $In \rightarrow In^{+}$
Fig. 325 $In \rightarrow In^{2+}$
Fig. 326 $In \rightarrow In^{3+}$
Fig. 327 $In^{+} \rightarrow In^{2+}$
Fig. 328 $Sn \rightarrow Sn^{+}$
Fig. 329 $Sn \rightarrow Sn^{2+}$
Fig. 330 $Sn \rightarrow Sn^{3+}$
Fig. 331 $Sb \rightarrow Sb^{+}$
Fig. 332 $Sb \rightarrow Sb^{2+}$
Fig. 333 $Sb \rightarrow Sb^{3+}$
Fig. 334 $Sb^{+} \rightarrow Sb^{2+}$
Fig. 335 $Sb^{+} \rightarrow Sb^{3+}$
Fig. 336 $Sb^{2+} \rightarrow Sb^{3+}$
Fig. 337 $Sb^{3+} \rightarrow Sb^{4+}$
Fig. 338 $Te \rightarrow \Sigma Te^{n+}$
Fig. 339 $Te \rightarrow Te^{+}$
Fig. 340 $Te \rightarrow Te^{2+}$
Fig. 341 $Te \rightarrow Te^{3+}$
Fig. 342 $Te^{+} \rightarrow Te^{2+}$
Fig. 343 $I \rightarrow I^{+}$
Fig. 344 $I \rightarrow I^{2+}$
Fig. 345 $I \rightarrow I^{3+}$
Fig. 346 $I^{+} \rightarrow I^{3+}$
Fig. 347 $Xe \rightarrow \Sigma Xe^{n+}$
Fig. 348 $Xe \rightarrow Xe^{+}$
Fig. 349 $Xe \rightarrow Xe^{2+}$
Fig. 350 $Xe \rightarrow Xe^{3+}$
Fig. 351 $Xe \rightarrow Xe^{4+}$
Fig. 352 $Xe \rightarrow Xe^{5+}$
Fig. 353 $Xe \rightarrow Xe^{6+}$
Fig. 354 $Xe \rightarrow Xe^{7+}$
Fig. 355 $Xe \rightarrow Xe^{8+}$
Fig. 356 $Xe \rightarrow Xe^{9+}$
Fig. 357 $Xe \rightarrow Xe^{10+}$
Fig. 358 $Xe \rightarrow Xe^{11+}$
Fig. 359 $Xe \rightarrow Xe^{12+}$
Fig. 360 $Xe \rightarrow Xe^{13+}$
Fig. 361 $Xe^{+} \rightarrow Xe^{2+}$
Fig. 362 $Xe^{+} \rightarrow Xe^{3+}$
Fig. 363 $Xe^{+} \rightarrow Xe^{4+}$
Fig. 364 $Xe^{+} \rightarrow Xe^{5+}$
Fig. 365 $Xe^{2+} \rightarrow Xe^{3+}$
Fig. 366 $Xe^{2+} \rightarrow Xe^{4+}$
Fig. 367 $Xe^{2+} \rightarrow Xe^{5+}$
Fig. 368 $Xe^{2+} \rightarrow Xe^{6+}$
Fig. 369 $Xe^{3+} \rightarrow Xe^{4+}$
Fig. 370 $Xe^{3+} \rightarrow Xe^{5+}$
Fig. 371 $Xe^{3+} \rightarrow Xe^{6+}$
Fig. 372 $Xe^{4+} \rightarrow Xe^{5+}$
Fig. 373 $Xe^{4+} \rightarrow Xe^{6+}$
Fig. 374 $Xe^{5+} \rightarrow Xe^{6+}$
Fig. 375 $Xe^{6+} \rightarrow Xe^{7+}$
Fig. 376 $Xe^{6+} \rightarrow Xe^{8+}$
Fig. 377 $Xe^{6+} \rightarrow Xe^{9+}$
Fig. 378 $Xe^{8+} \rightarrow Xe^{9+}$
Fig. 379 $Xe^{8+} \rightarrow Xe^{10+}$
Fig. 380 $Cs \rightarrow \Sigma Cs^{n+}$
Fig. 381 $Cs \rightarrow Cs^{+}$
Fig. 382 $Cs^{+} \rightarrow Cs^{2+}$
Fig. 383 $Cs^{+} \rightarrow Cs^{3+}$
Fig. 384 $Cs^{+} \rightarrow Cs^{4+}$
Fig. 385 $Cs^{+} \rightarrow Cs^{5+}$
Fig. 386 $Ba^{+} \rightarrow \Sigma Ba^{n+}$
Fig. 387 $Ba \rightarrow Ba^{+}$
Fig. 388 $Ba \rightarrow Ba^{2+}$
Fig. 389 $Ba \rightarrow Ba^{3+}$
Fig. 390 $Ba \rightarrow Ba^{4+}$
Fig. 391 $Ba^{+} \rightarrow Ba^{2+}$
Fig. 392 $Ba^{+} \rightarrow Ba^{3+}$
Fig. 393 $Ba^{2+} \rightarrow Ba^{3+}$
Fig. 394 $Ba^{2+} \rightarrow Ba^{4+}$
Fig. 395 $Ba^{3+} \rightarrow Ba^{4+}$
Fig. 396 $La^{+} \rightarrow La^{3+}$
Fig. 397 $La^{2+} \rightarrow La^{3+}$
Fig. 398 $La^{2+} \rightarrow La^{4+}$
Fig. 399 $La^{2+} \rightarrow La^{5+}$
Fig. 400 $La^{3+} \rightarrow La^{4+}$
Fig. 401 $Hf^{3+} \rightarrow Hf^{4+}$
Fig. 402 $Ta^{+} \rightarrow Ta^{2+}$
Fig. 403 $Ta^{3+} \rightarrow Ta^{4+}$
Fig. 404 $W \rightarrow W^{+}$ ($5d^4 \rightarrow 5d^5$)
Fig. 405 $W \rightarrow W^{+}$ ($6s^2 \rightarrow 6s^1$)
Fig. 406 $W^{+} \rightarrow W^{2+}$
Fig. 407 $Au^{+} \rightarrow \Sigma Au^{n+}$
Fig. 408 $Au \rightarrow Au^{+}$
Fig. 409 $Au^{3+} \rightarrow Au^{4+}$
Fig. 410 $Hg \rightarrow \Sigma Hg^{n+}$
Fig. 411 $Hg \rightarrow Hg^{+}$
Fig. 412 $Hg \rightarrow Hg^{2+}$
Fig. 413 $Hg \rightarrow Hg^{3+}$
Fig. 414 $Hg \rightarrow Hg^{4+}$
Fig. 415 $Hg \rightarrow Hg^{5+}$
Fig. 416 $Hg^{+} \rightarrow Hg^{2+}$
Fig. 417 $Tl \rightarrow \Sigma Tl^{n+}$
Fig. 418 $Tl \rightarrow Tl^{+}$
Fig. 419 $Tl^{+} \rightarrow Tl^{2+}$
Fig. 420 $Pb \rightarrow \Sigma Pb^{n+}$
Fig. 421 $Pb \rightarrow Pb^{+}$
Fig. 422 $Pb \rightarrow Pb^{2+}$
Fig. 423 $Pb \rightarrow Pb^{3+}$
Fig. 424 $Bi \rightarrow Bi^{+}$
Fig. 425 $Bi \rightarrow Bi^{2+}$
Fig. 426 $Bi \rightarrow Bi^{3+}$
Fig. 427 $Bi^{+} \rightarrow Bi^{2+}$
Fig. 428 $Bi^{+} \rightarrow Bi^{3+}$
Fig. 429 $Bi^{2+} \rightarrow Bi^{3+}$
Fig. 430 $Bi^{2+} \rightarrow Bi^{4+}$
Fig. 431 $Bi^{3+} \rightarrow Bi^{5+}$
Fig. 432 $U \rightarrow \Sigma U^{n+}$
Fig. 433 $U \rightarrow U^{+}$
Fig. 434 $U \rightarrow U^{2+}$
Fig. 435 $U \rightarrow U^{3+}$
Fig. 436 $U \rightarrow U^{4+}$
Fig. 437 $U^{10+} \rightarrow U^{11+}$
Fig. 438 $U^{10+} \rightarrow U^{12+}$
Fig. 439 $U^{12+} \rightarrow U^{14+}$
Fig. 440 $U^{13+} \rightarrow U^{14+}$
Fig. 441 $U^{16+} \rightarrow U^{17+}$

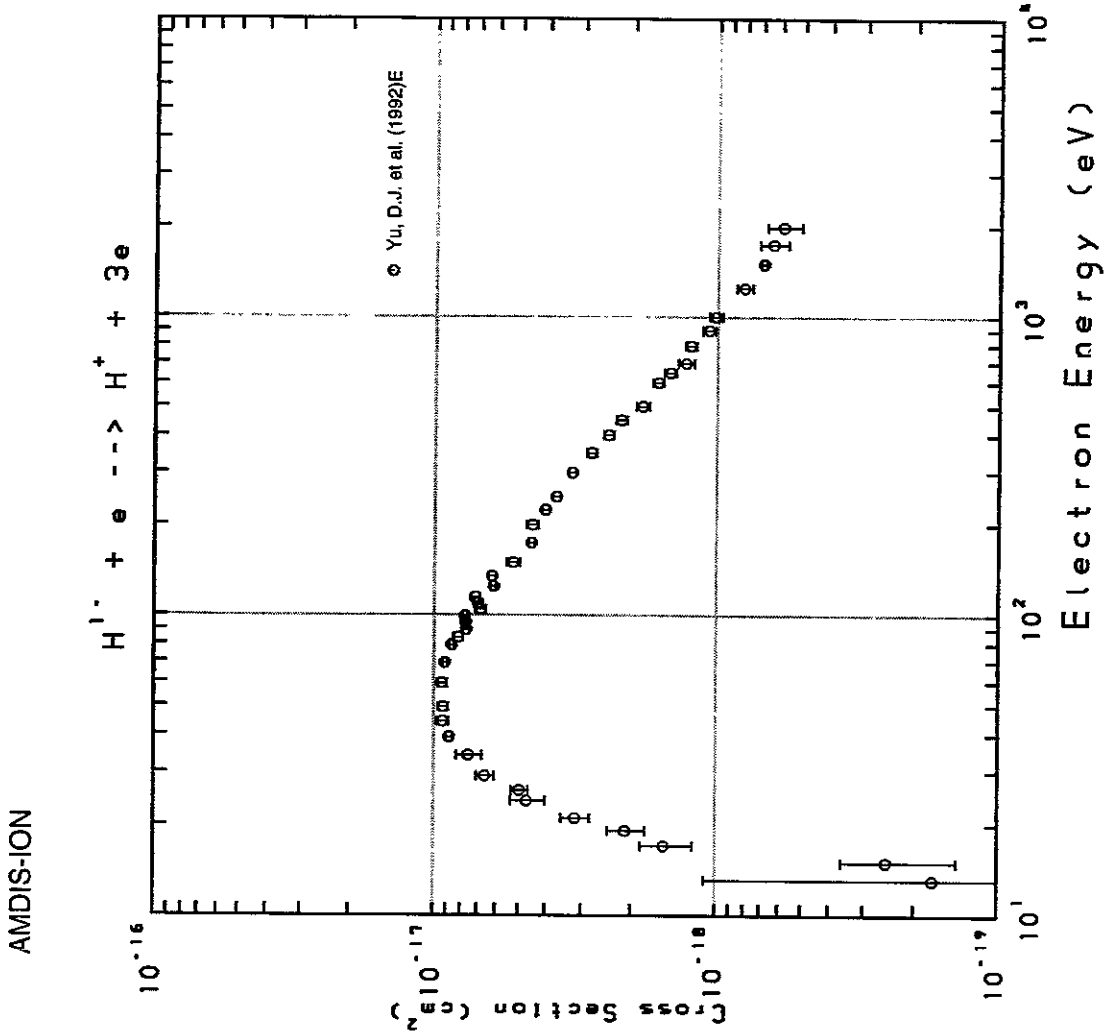

Fig. 2 $H^- \rightarrow H^+$

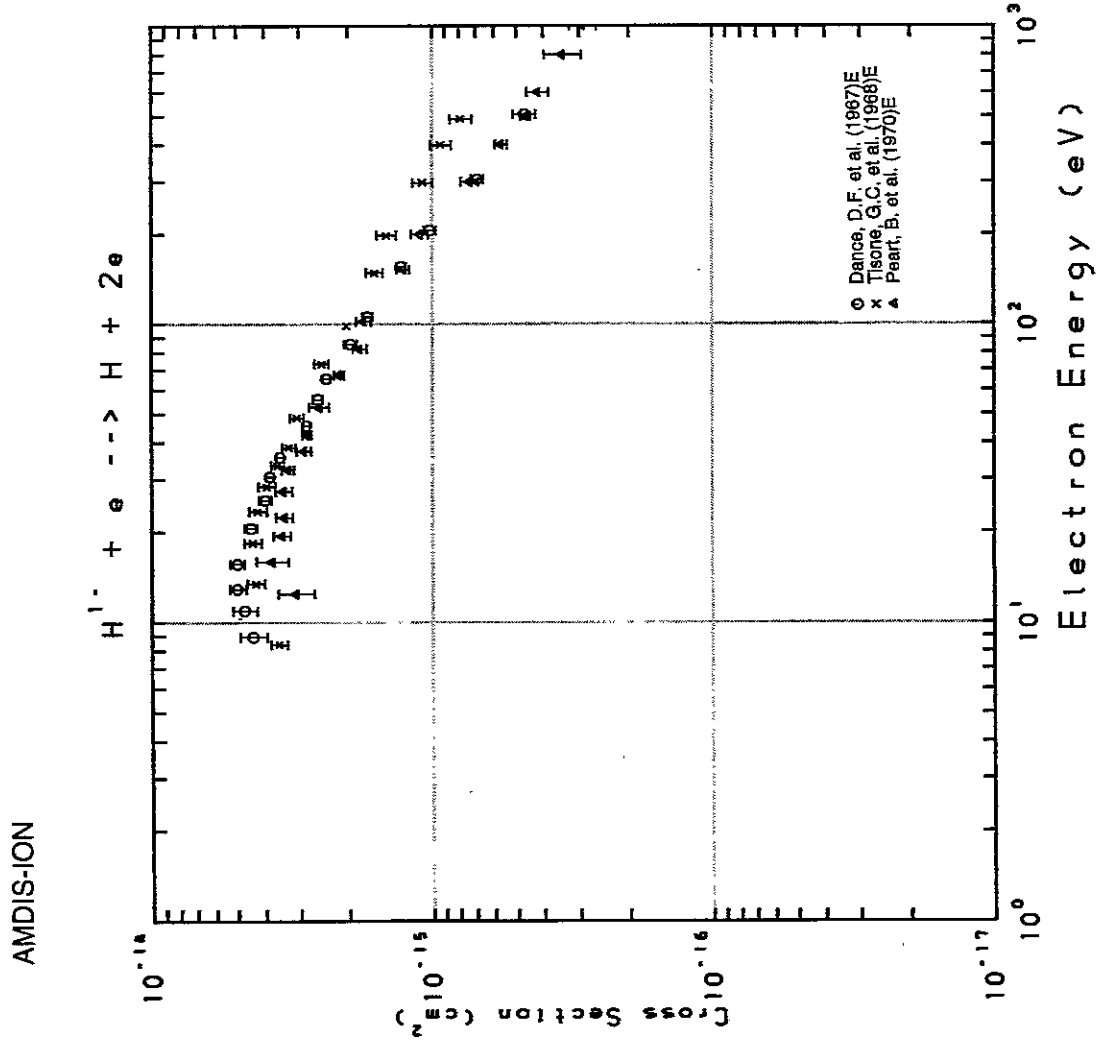

Fig. 1 $H^- \rightarrow H^0$

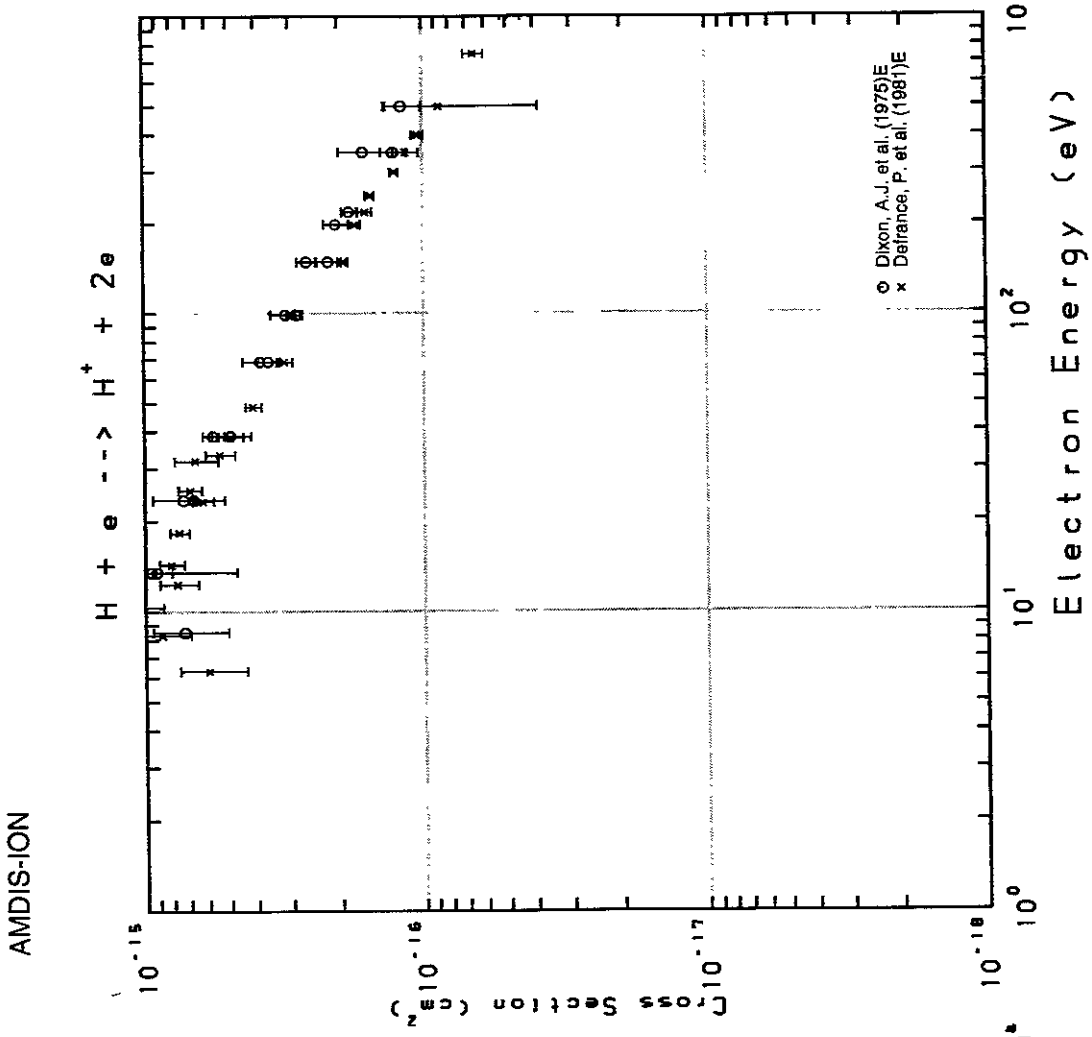

Fig. 4 H(2s) → H^+

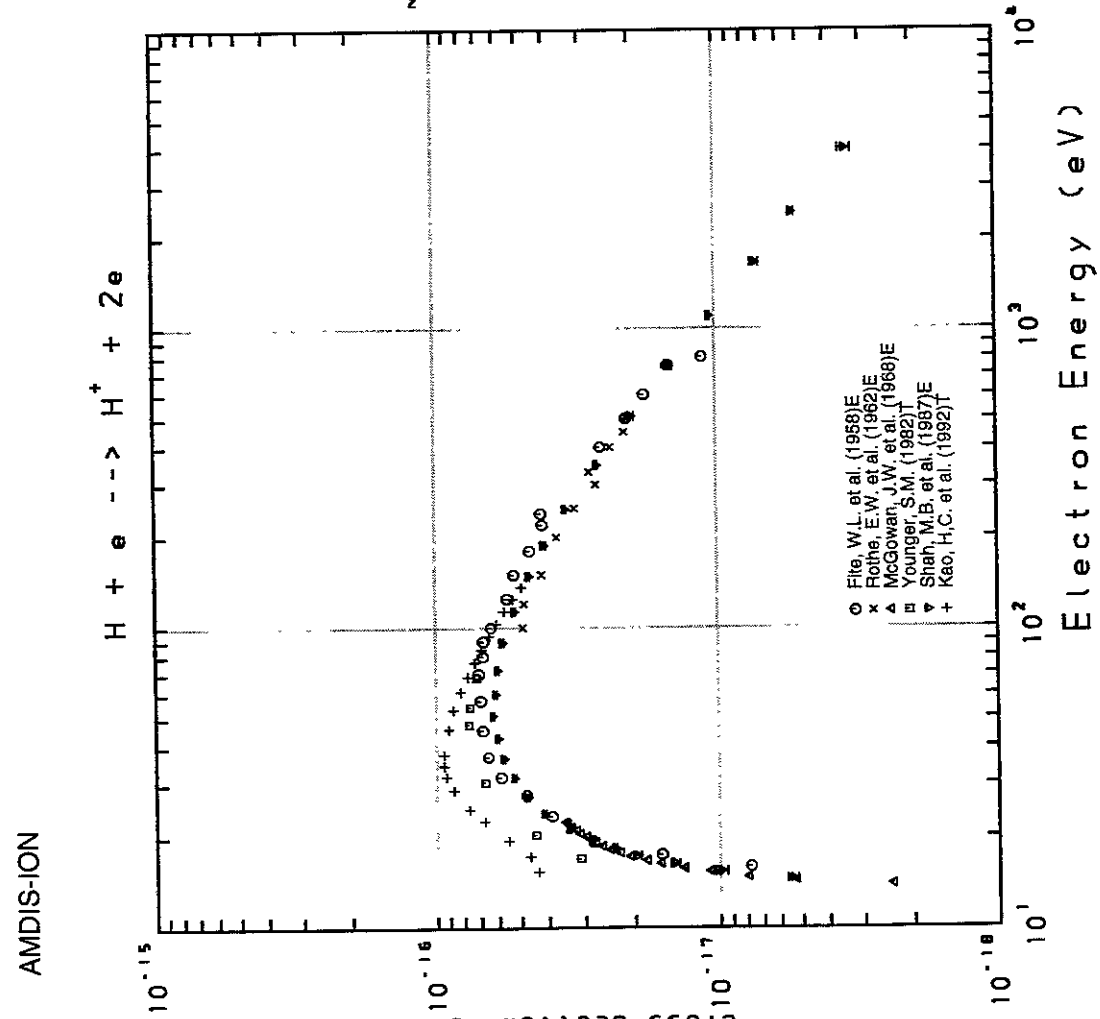

Fig. 3 H → H^+

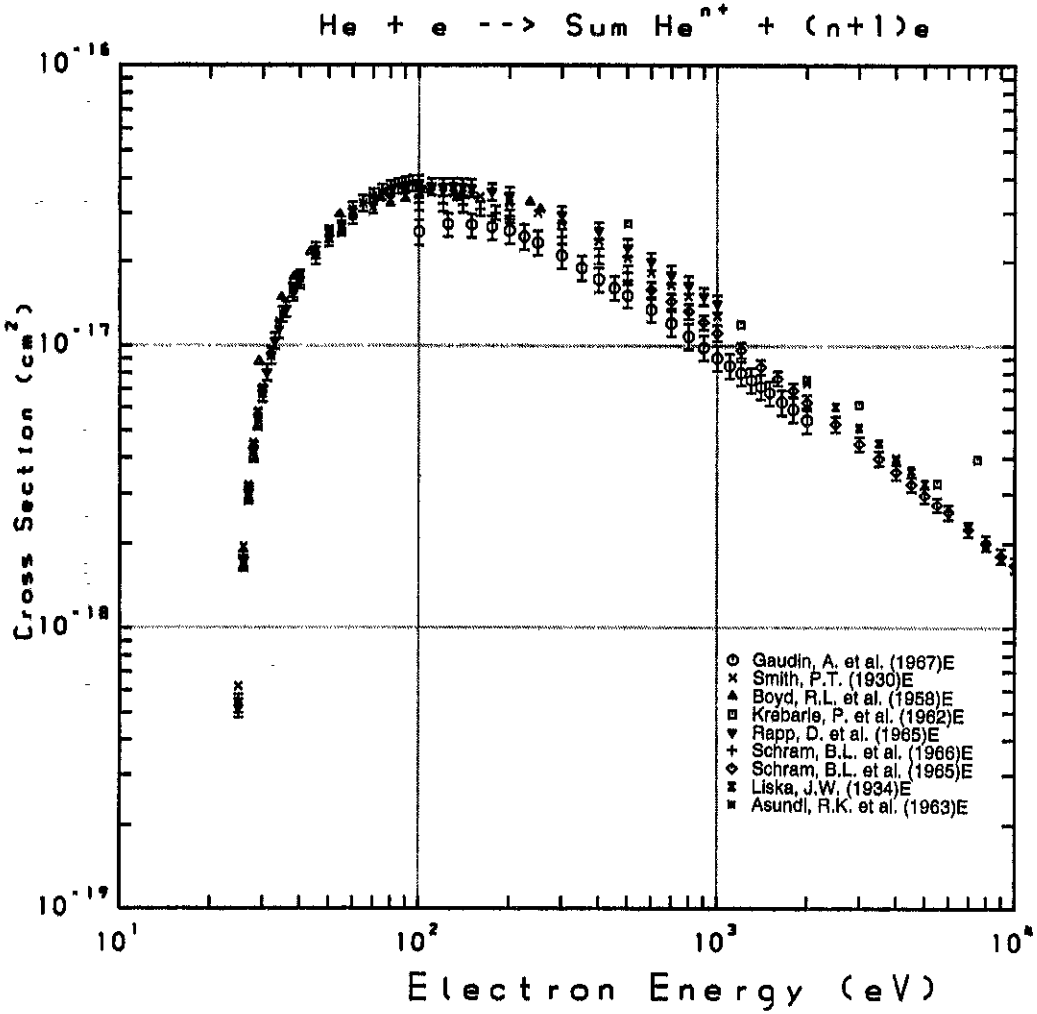

Fig. 5 He → ΣHe^{n+}

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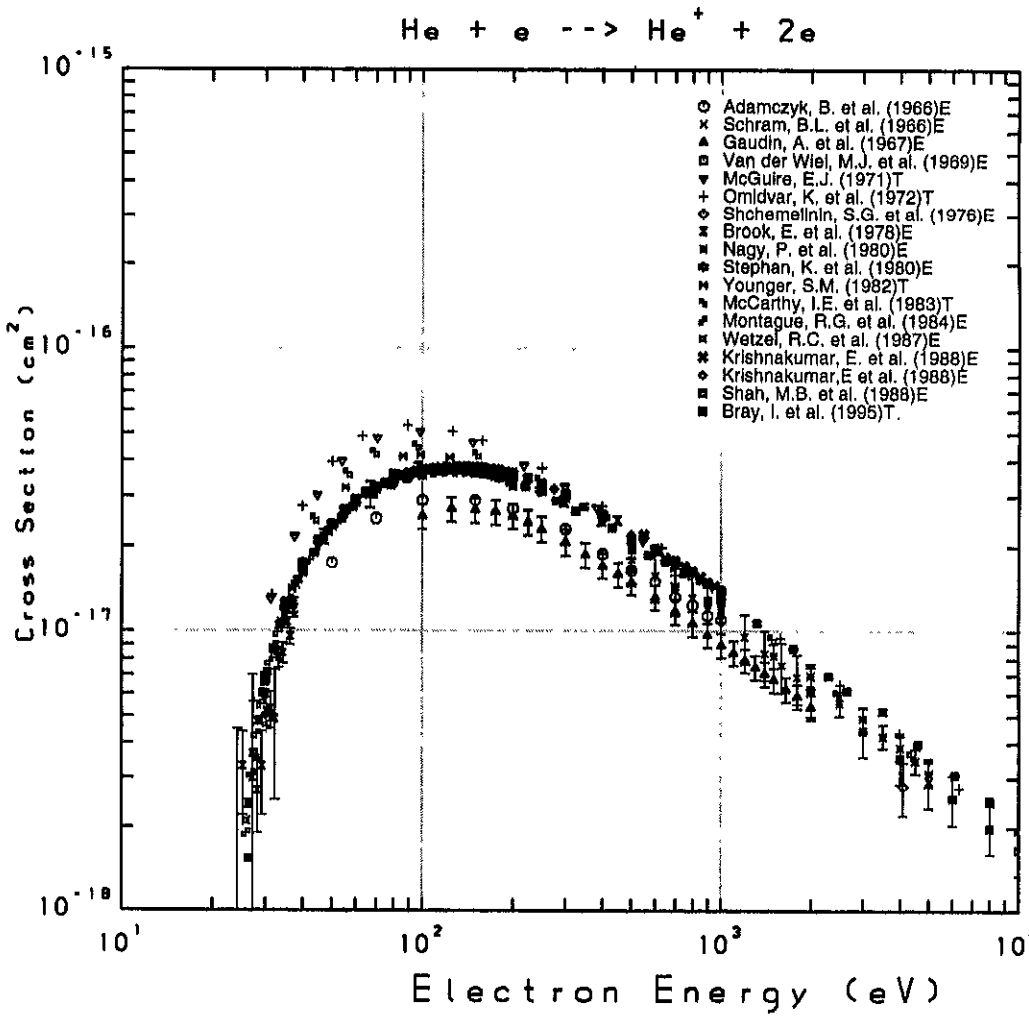

Fig. 6 He → He^{+}

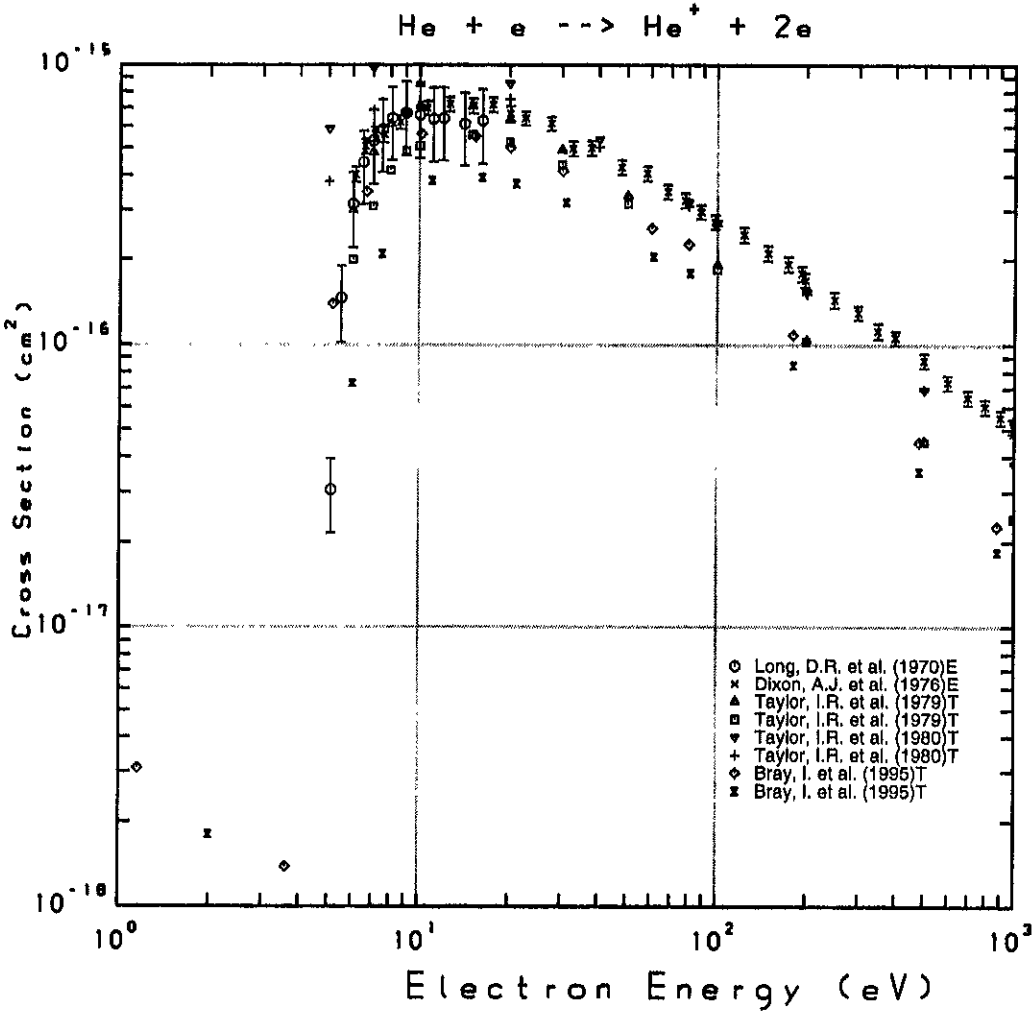

Fig. 7 $He(1s2s) \rightarrow He^{+}$

AMDIS-ION

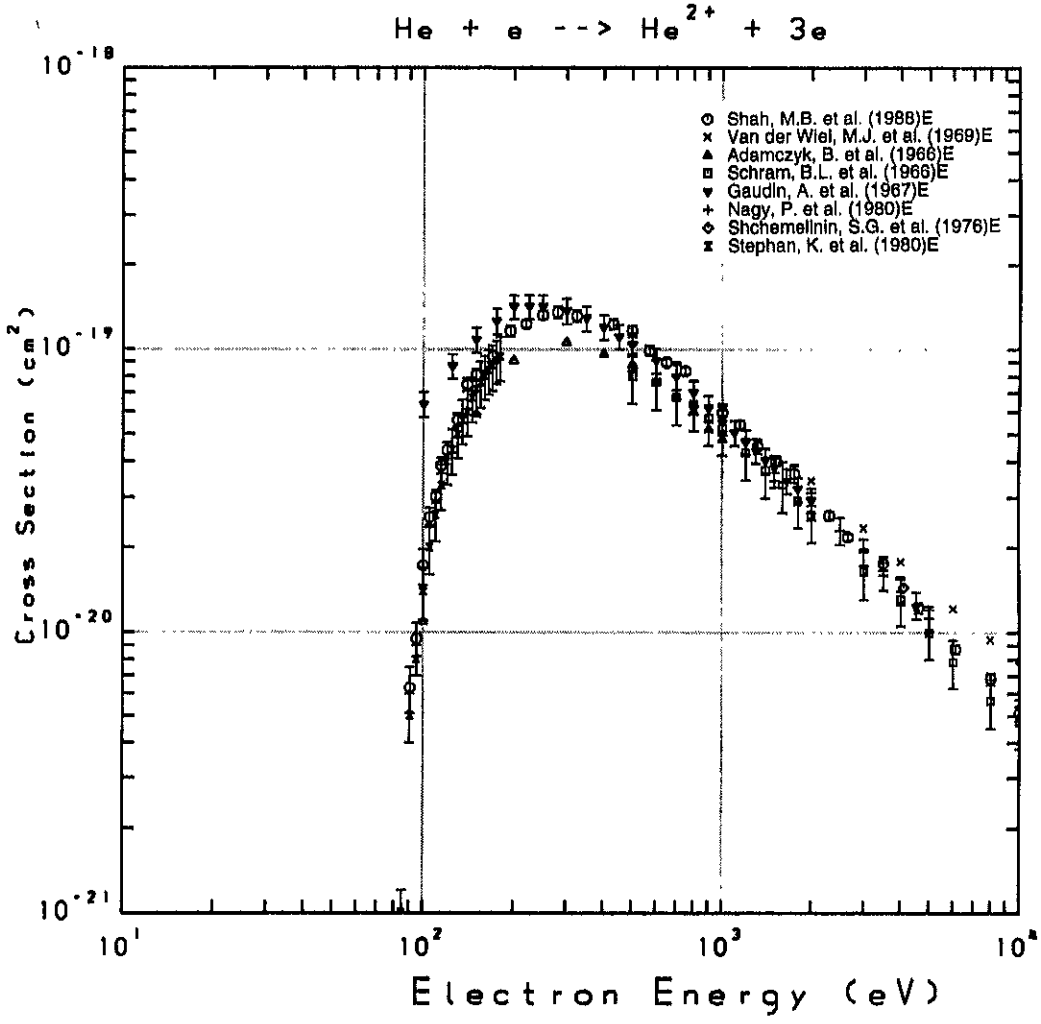

Fig. 8 $He \rightarrow He^{2+}$

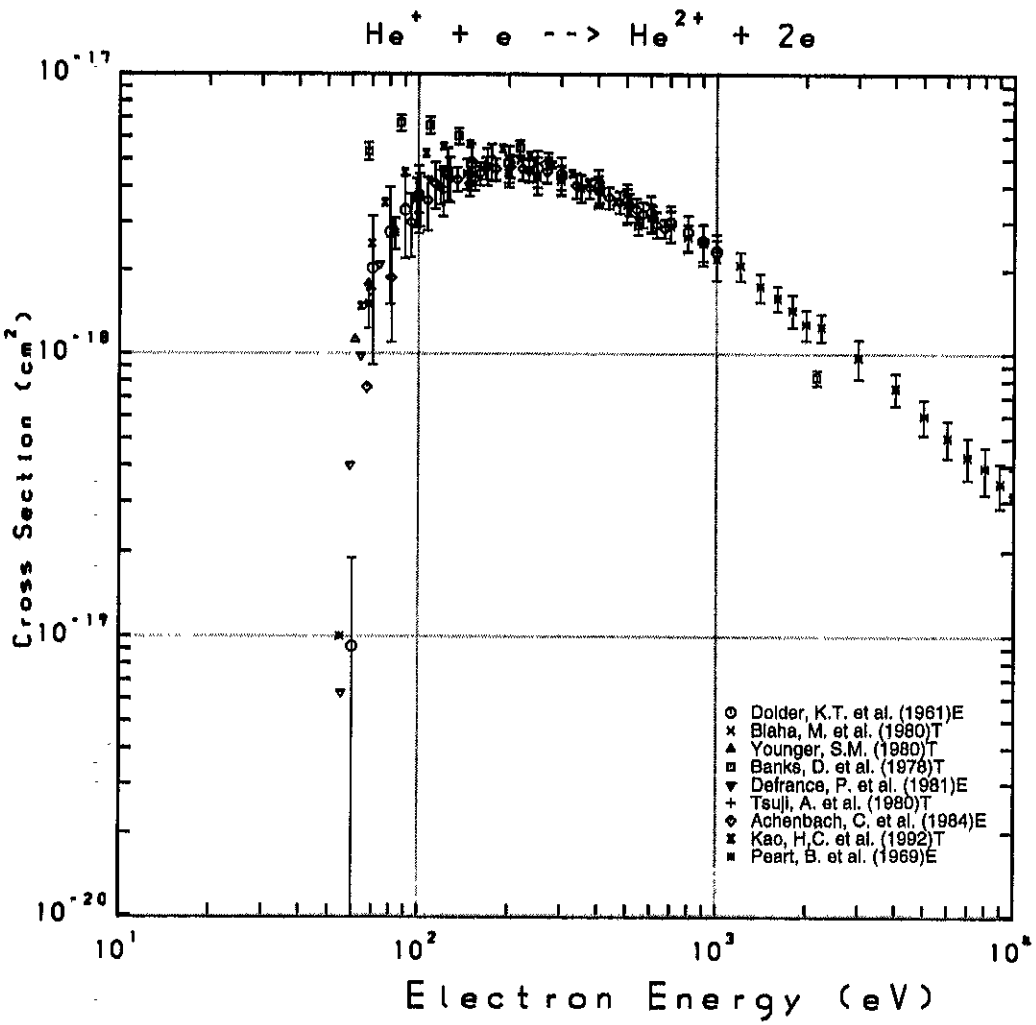

Fig. 9 $He^{+} \rightarrow He^{2+}$

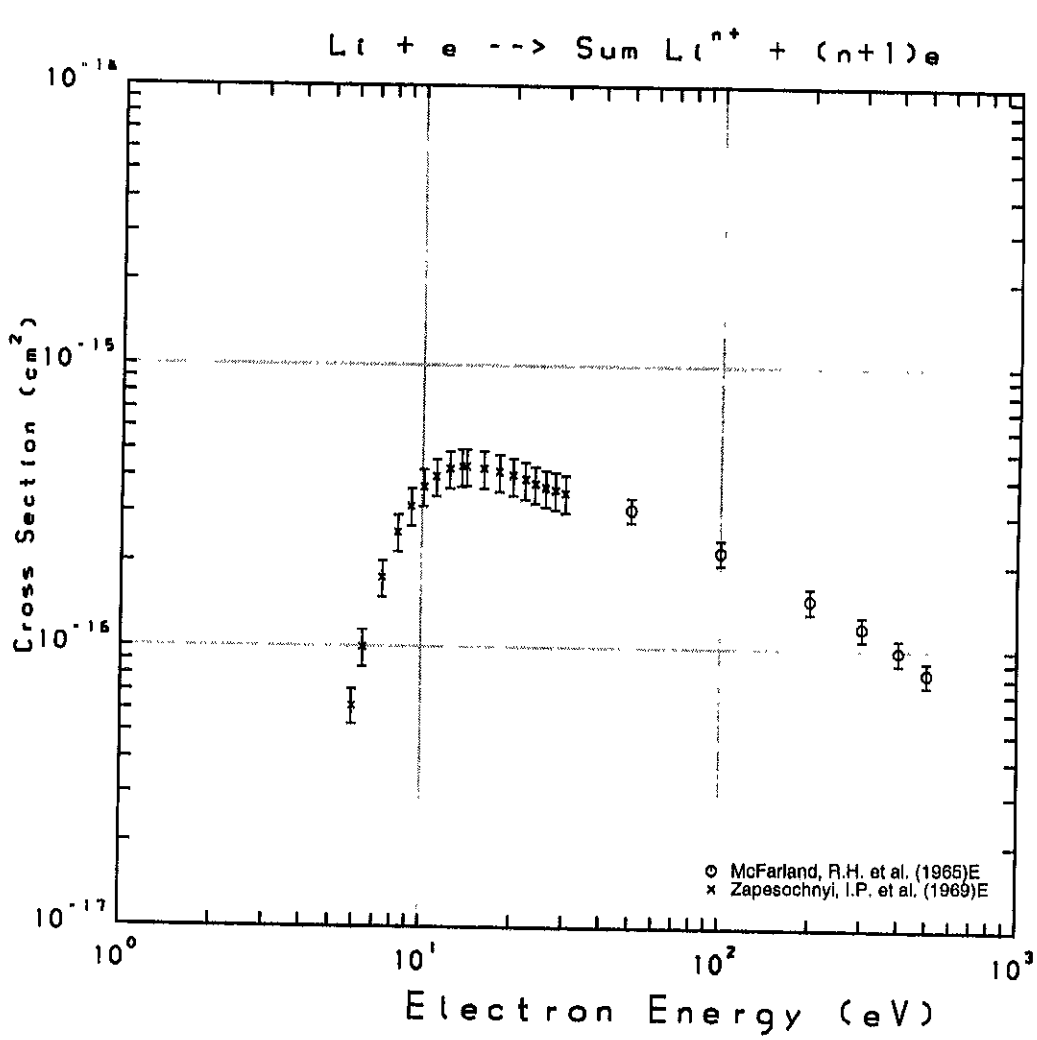

Fig. 10 $Li \rightarrow \Sigma Li^{n+}$

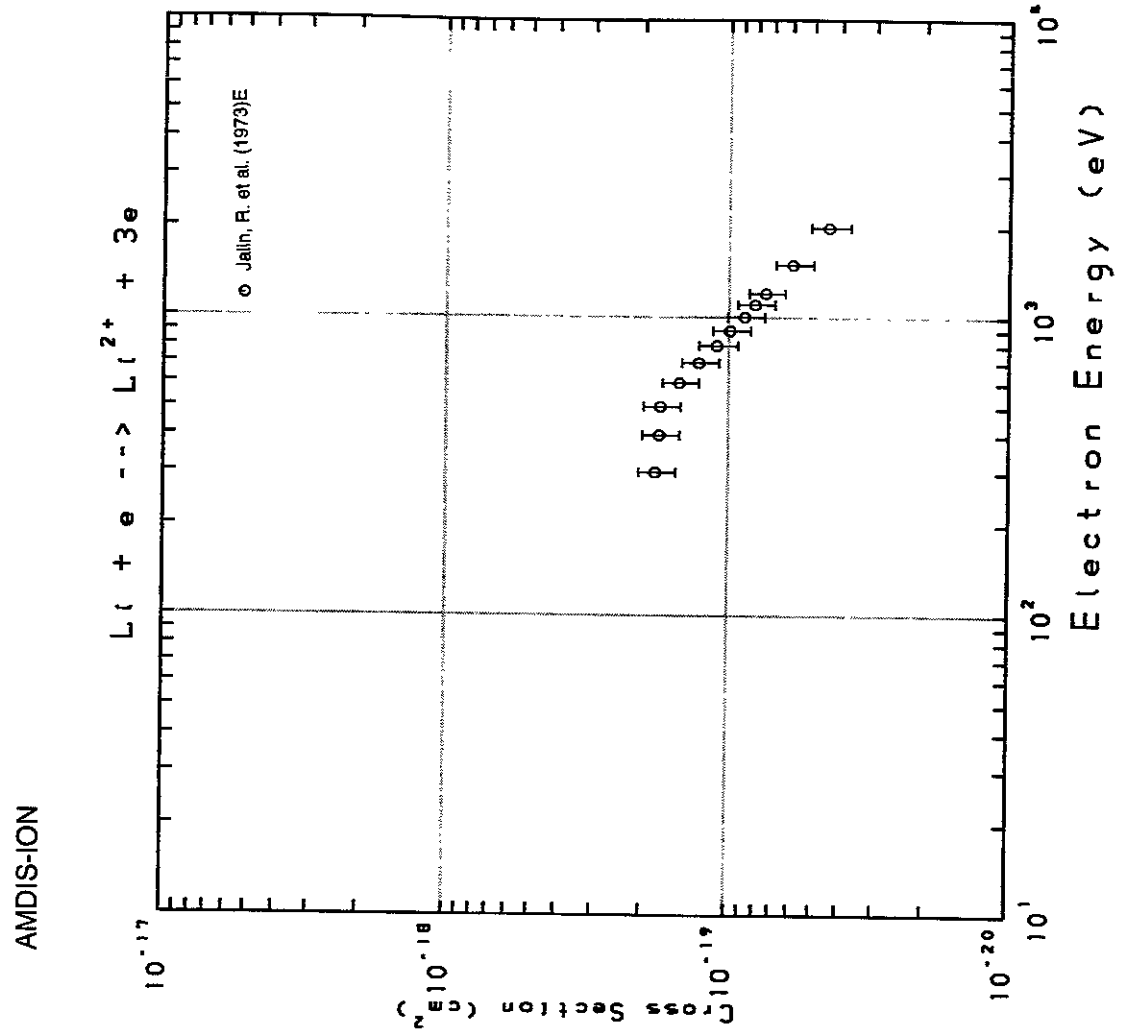

Fig. 12 Li → Li^{2+}

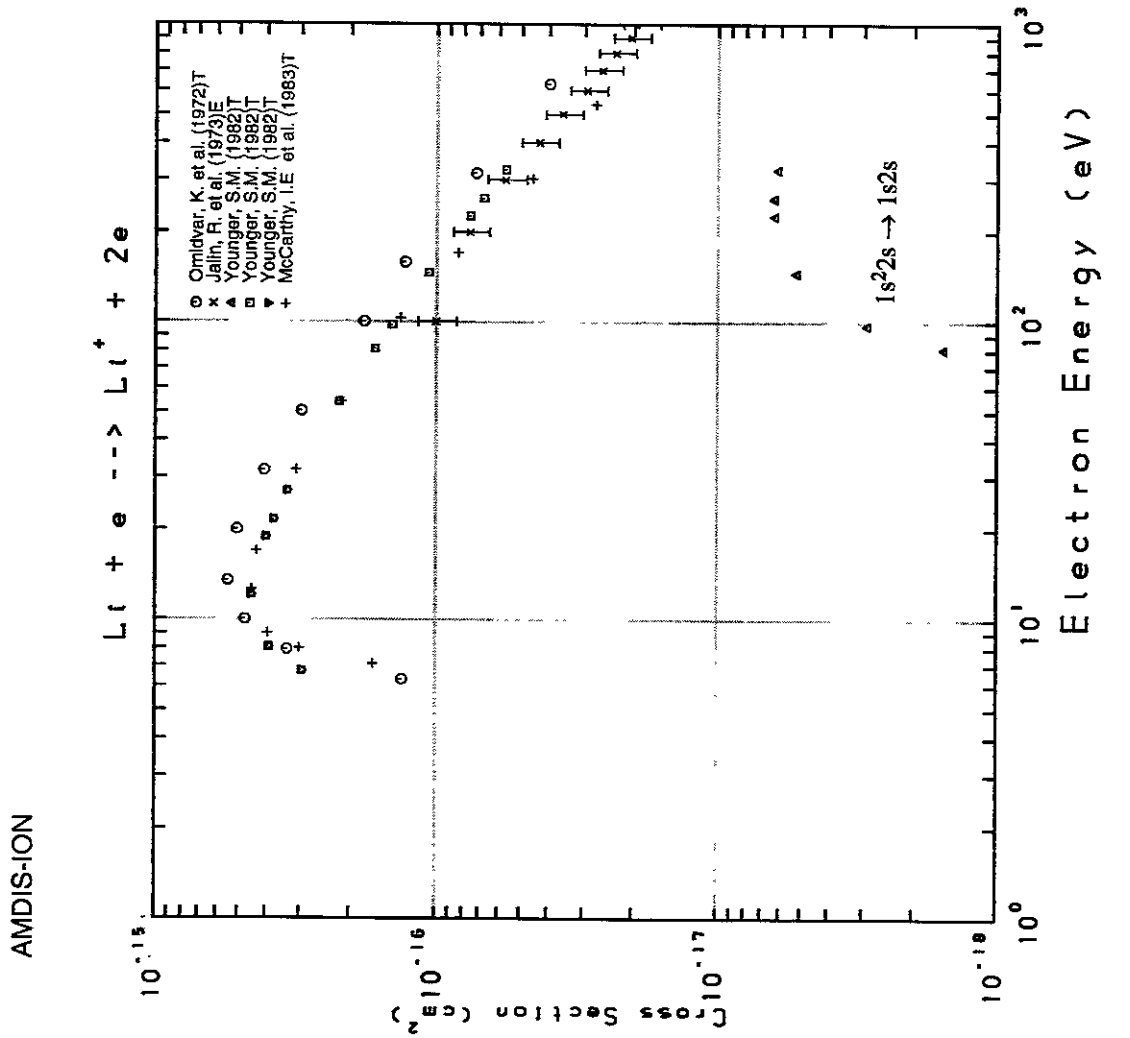

Fig. 11 Li → Li^{+}

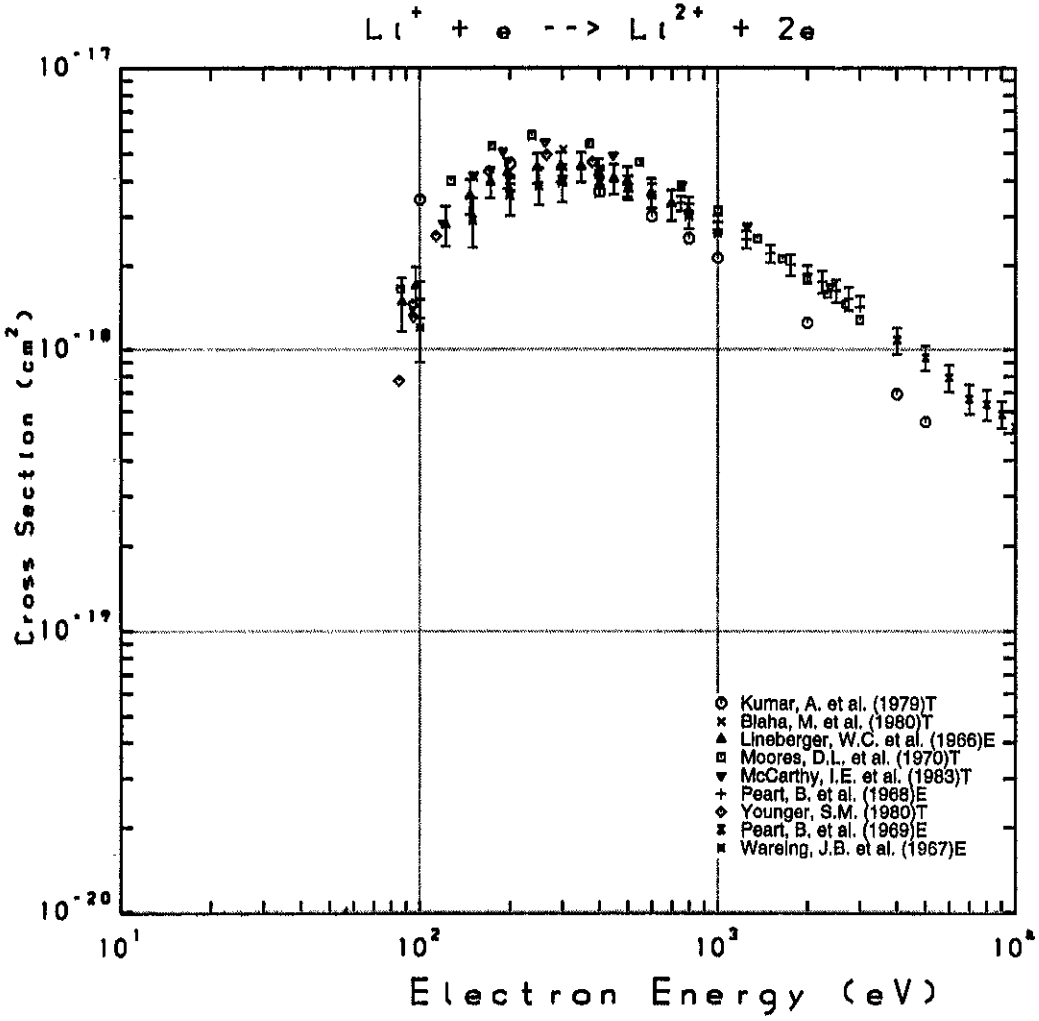

Fig. 13 $Li^+ \rightarrow Li^{2+}$

AMDIS-ION

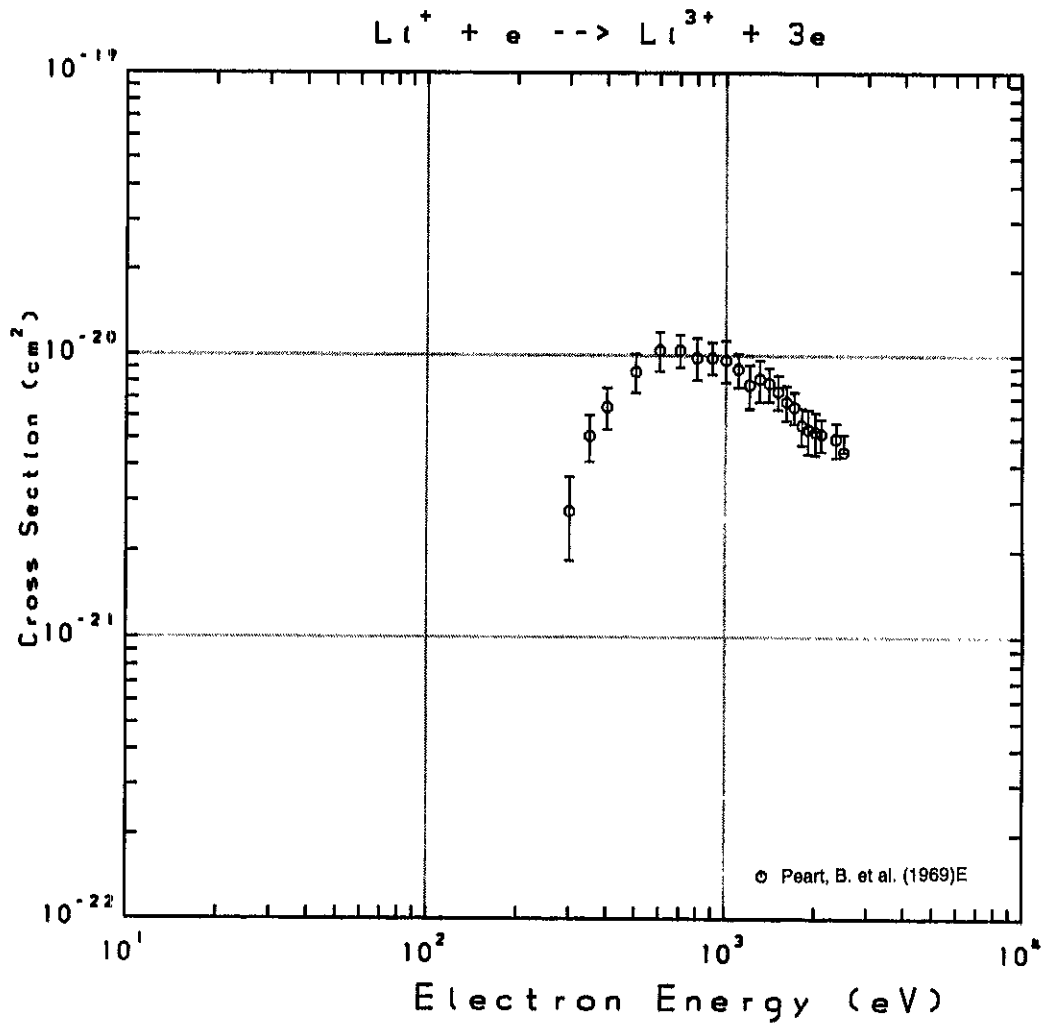

Fig. 14 $Li^+ \rightarrow Li^{3+}$

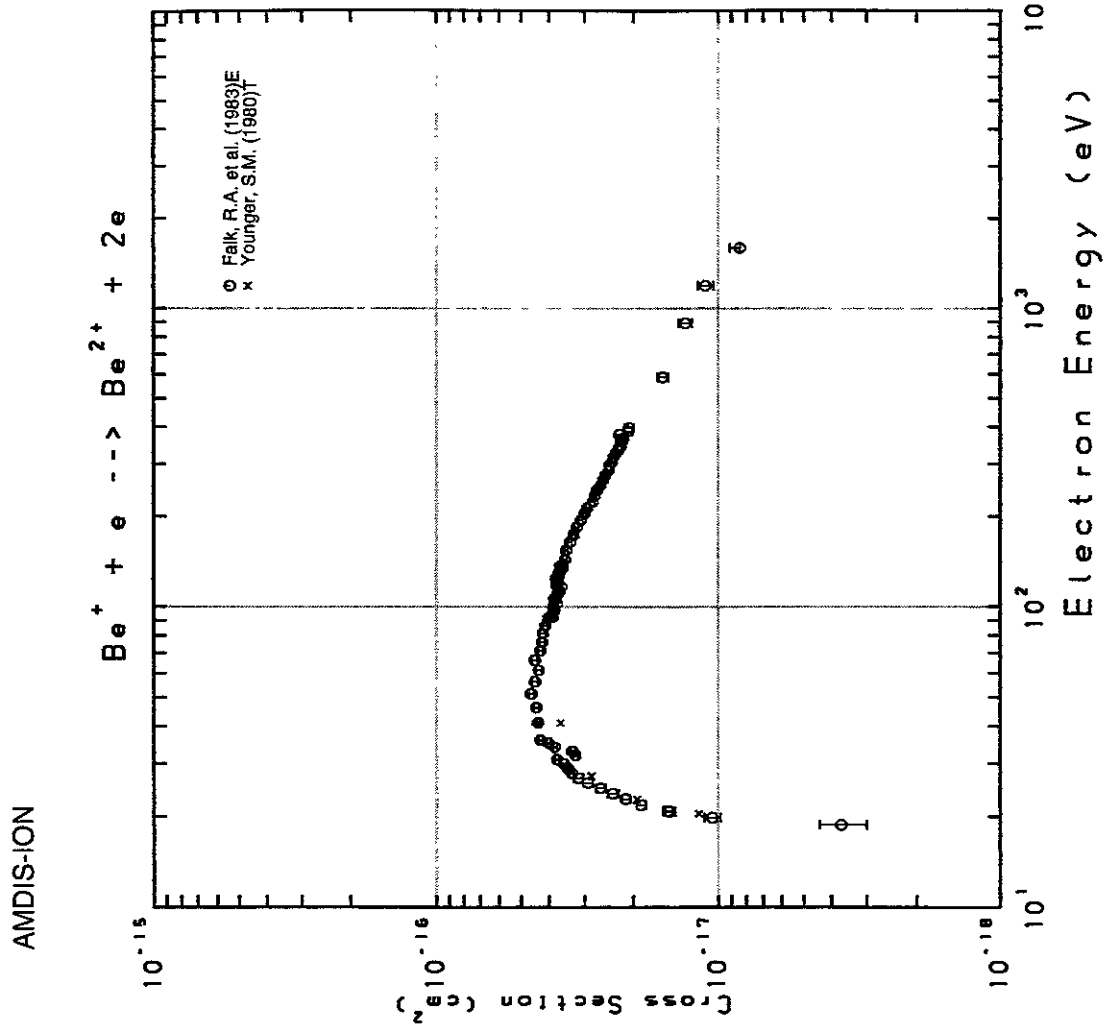

Fig. 16 $Be^{+} \rightarrow Be^{2+}$

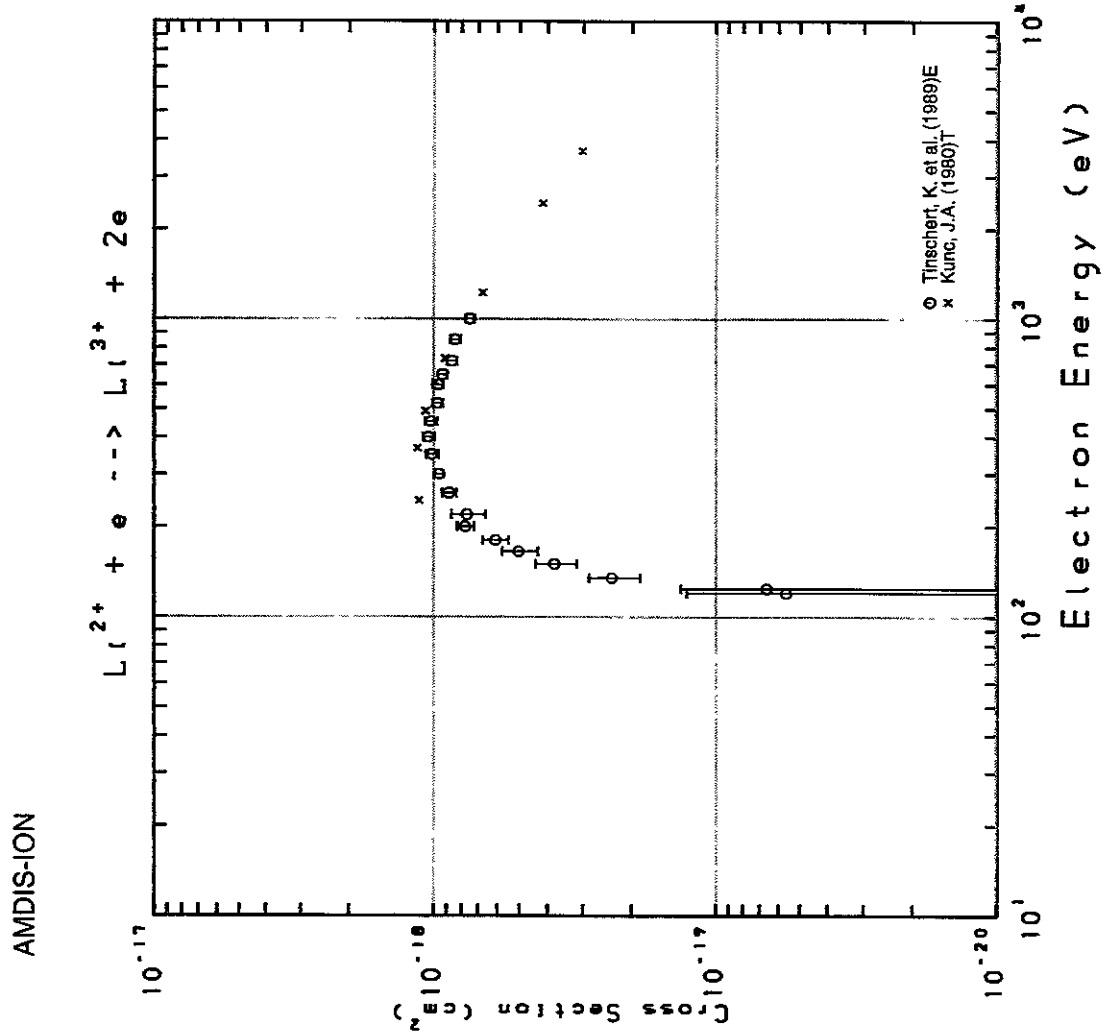

Fig. 15 $Li^{2+} \rightarrow Li^{3+}$

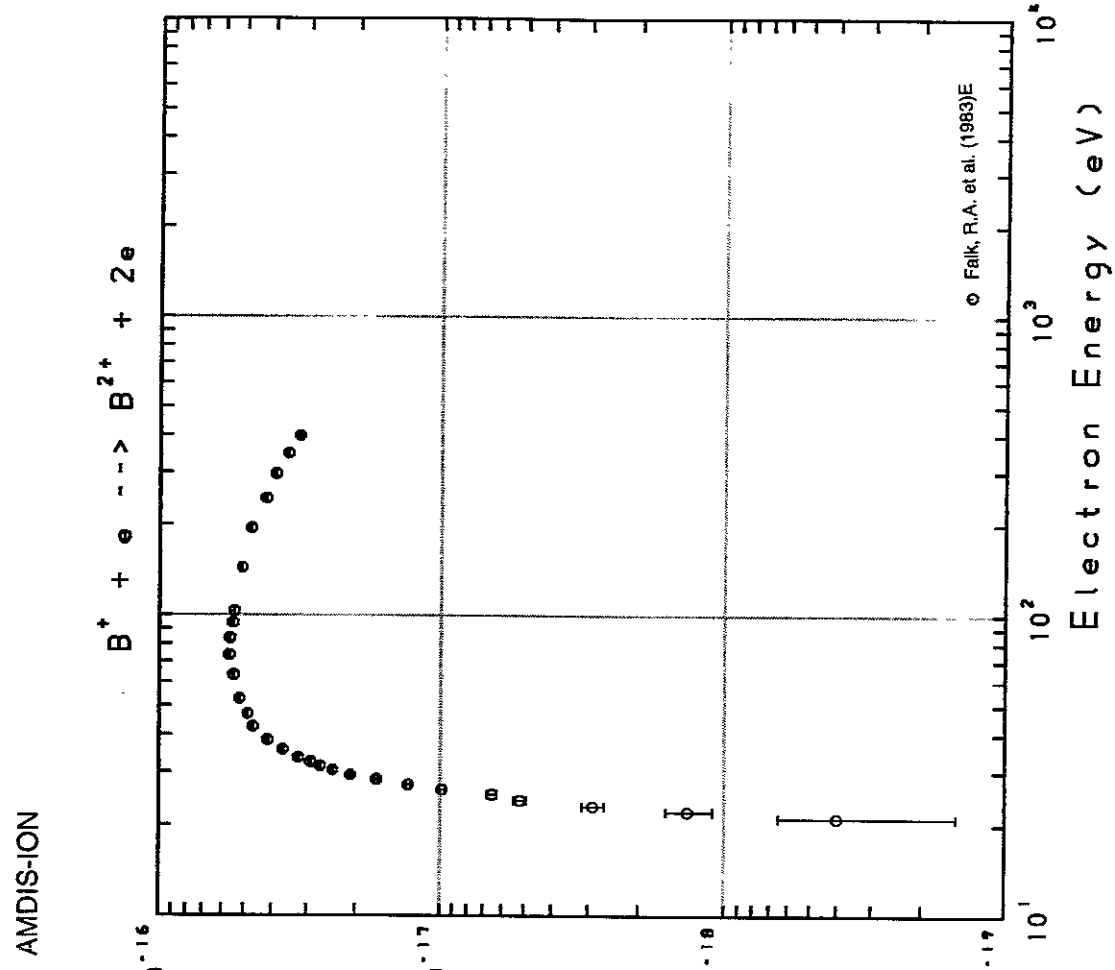

Fig. 17 $B \rightarrow B^{+}$

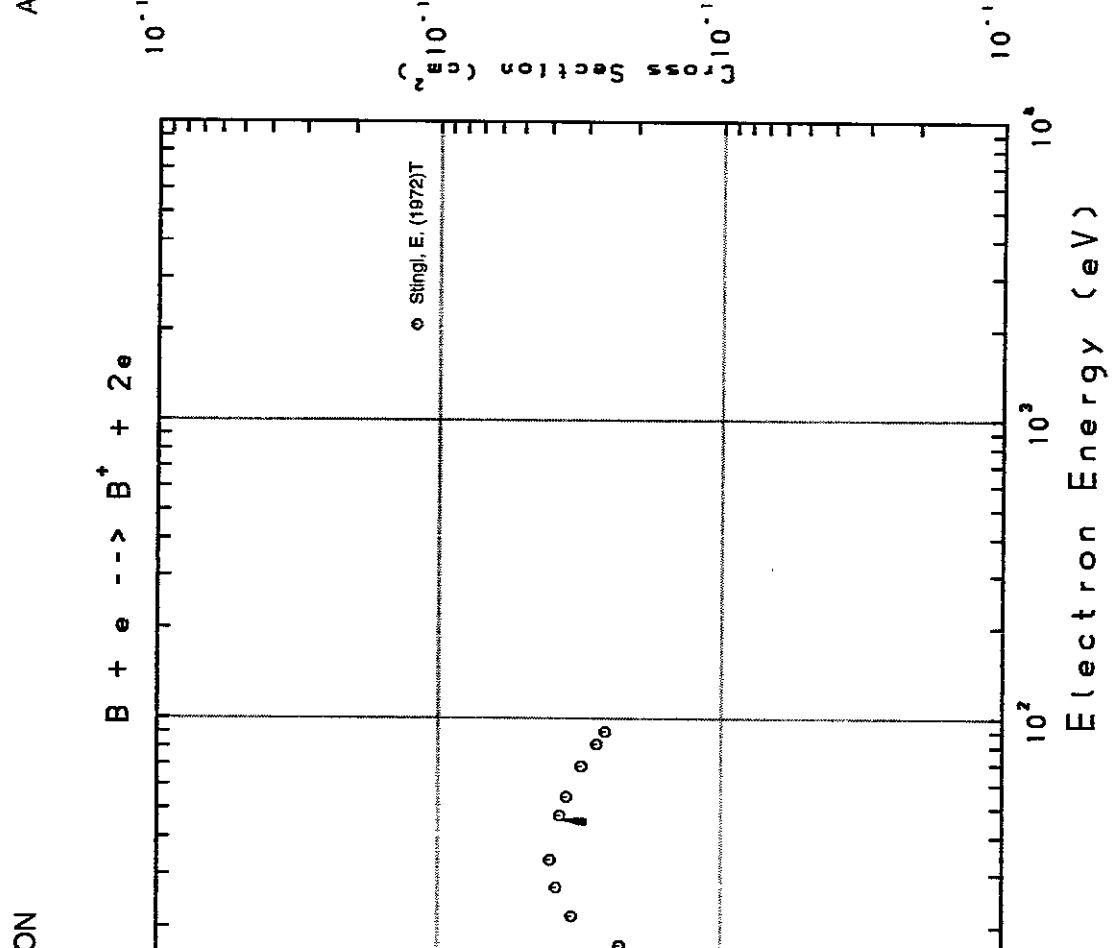

Fig. 18 $B^{+} \rightarrow B^{2+}$

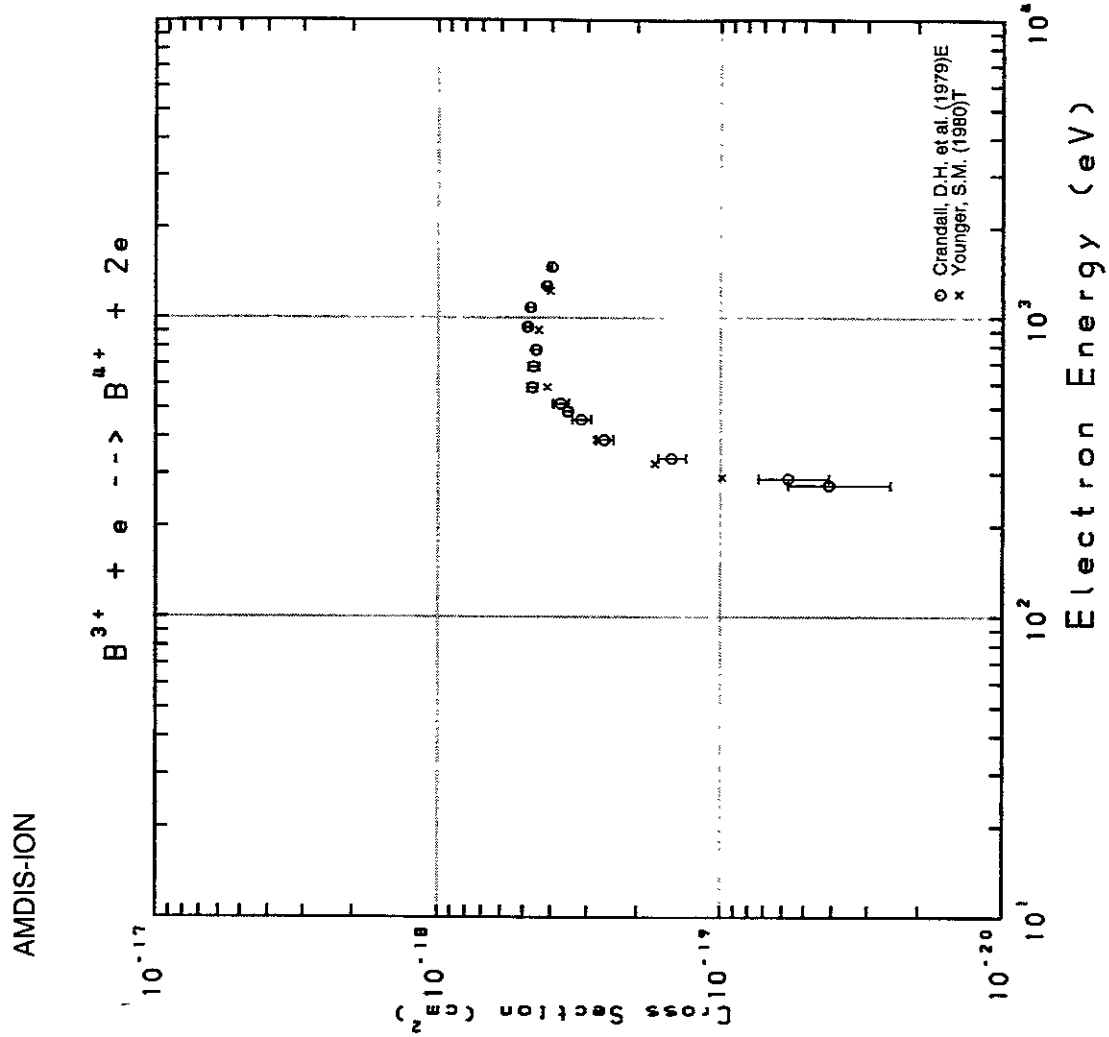

Fig. 20 $B^{3+} \rightarrow B^{4+}$

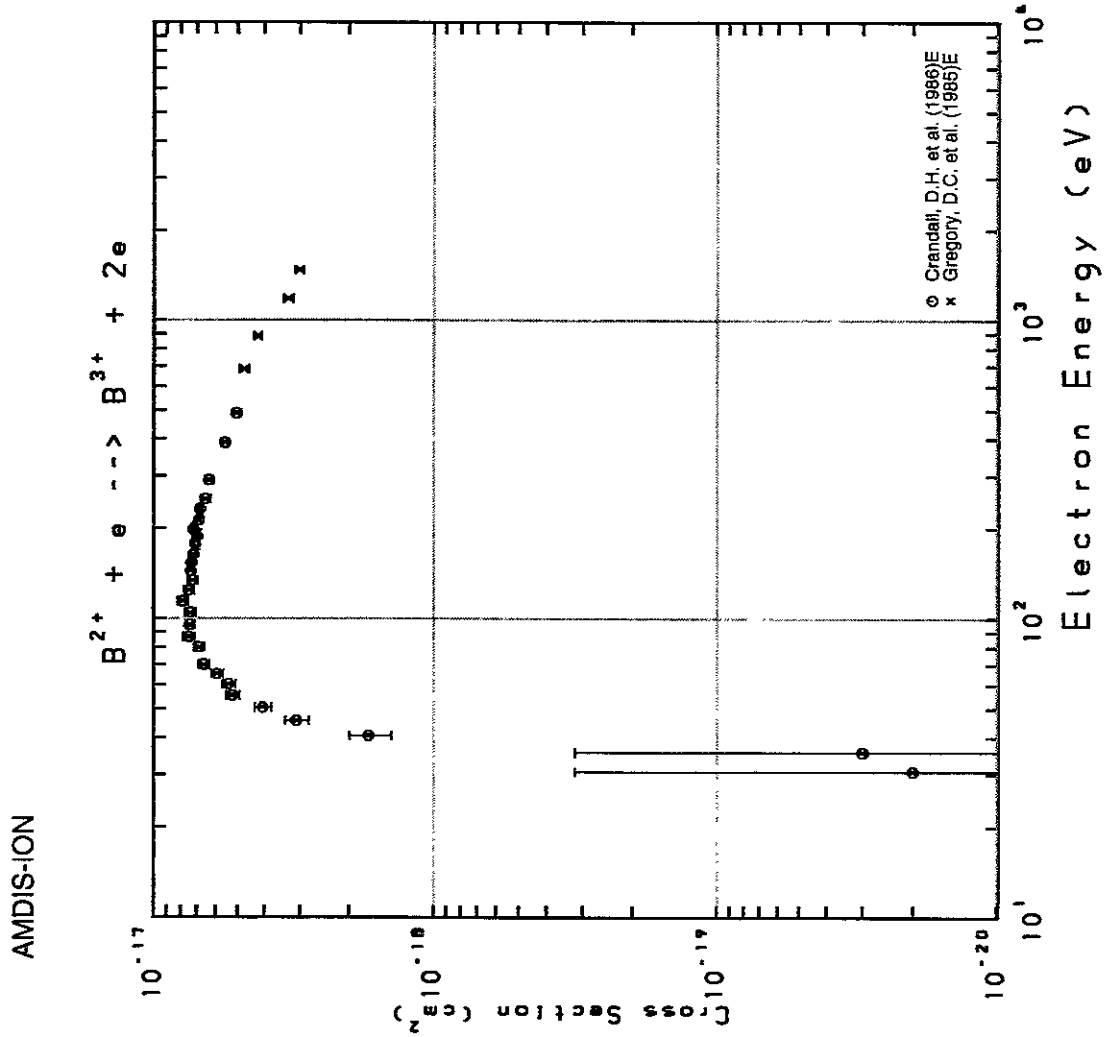

Fig. 19 $B^{2+} \rightarrow B^{3+}$

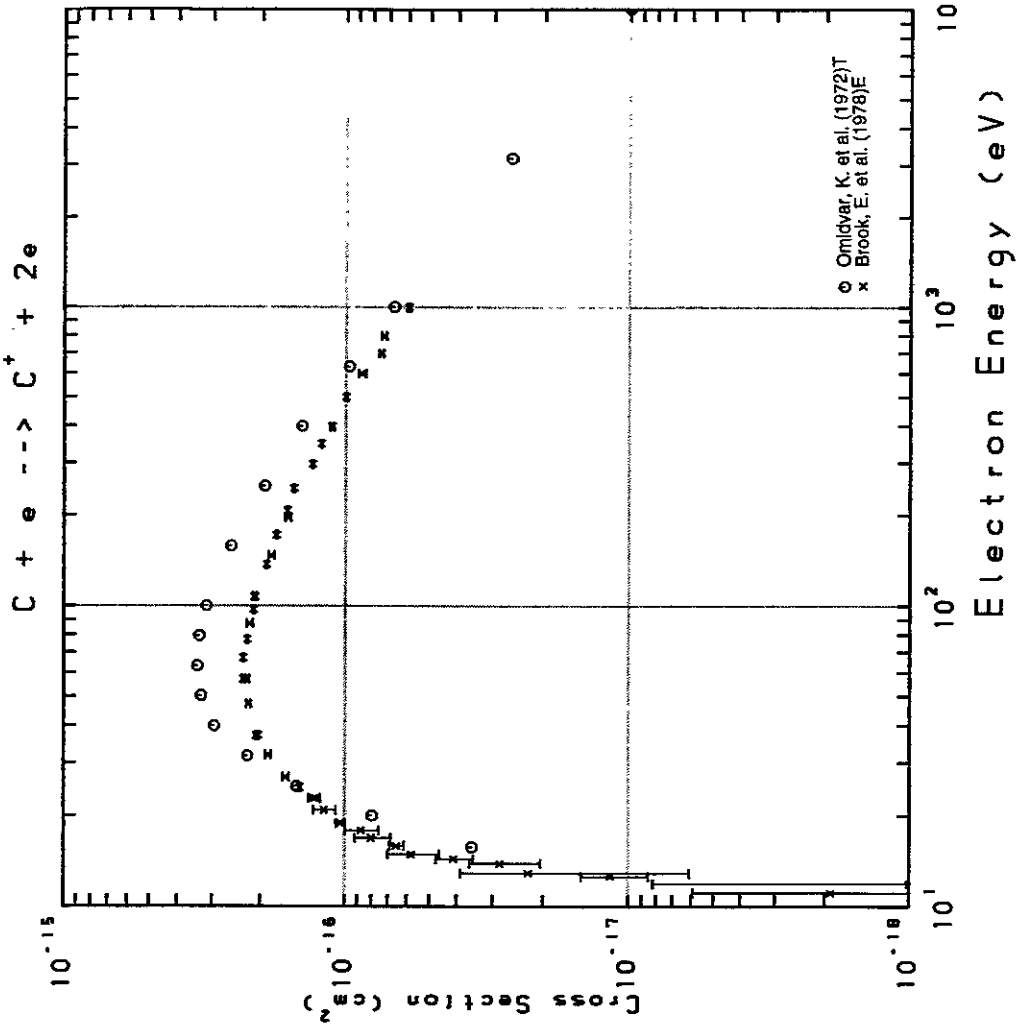

Fig. 22 C → C+

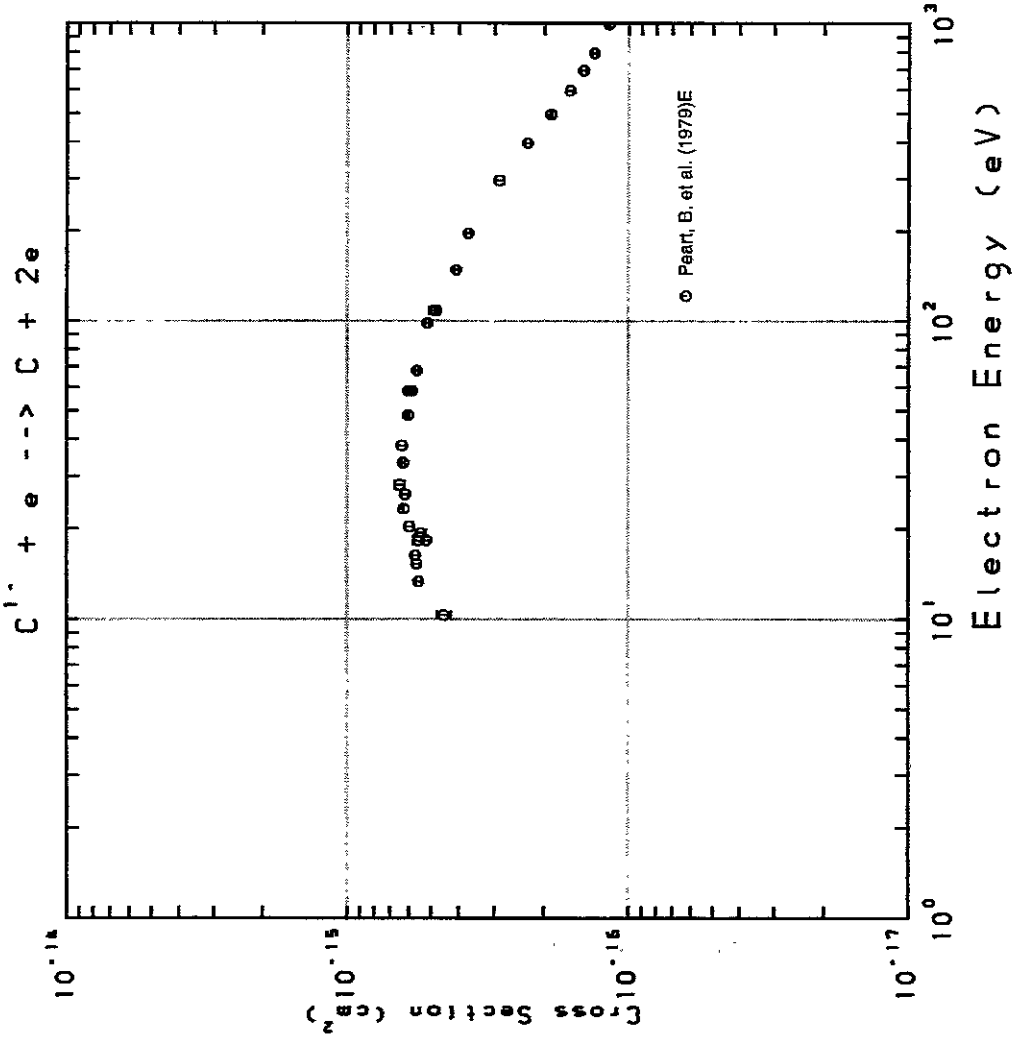

Fig. 21 C- → C0

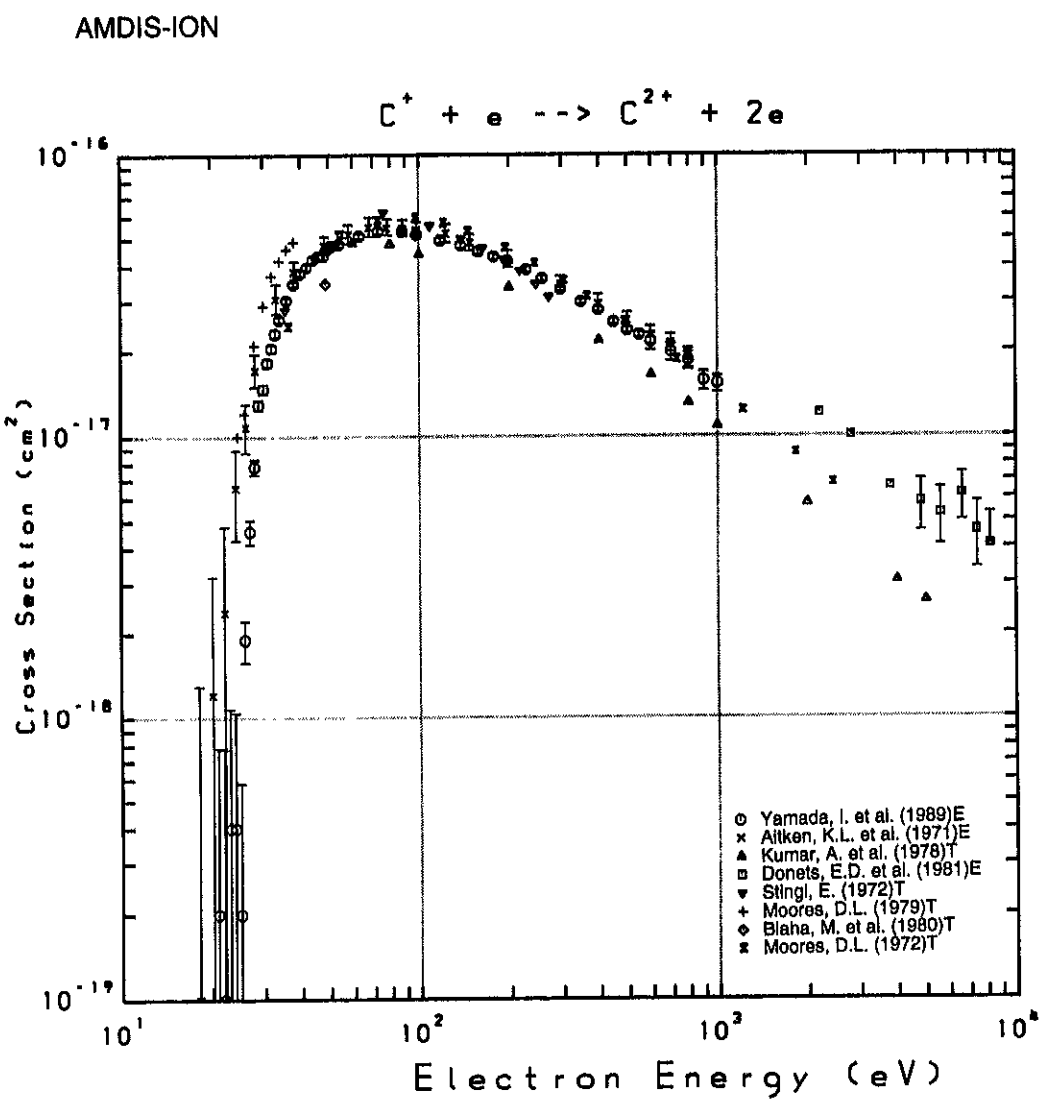

Fig. 23 $C^+ \rightarrow C^{2+}$

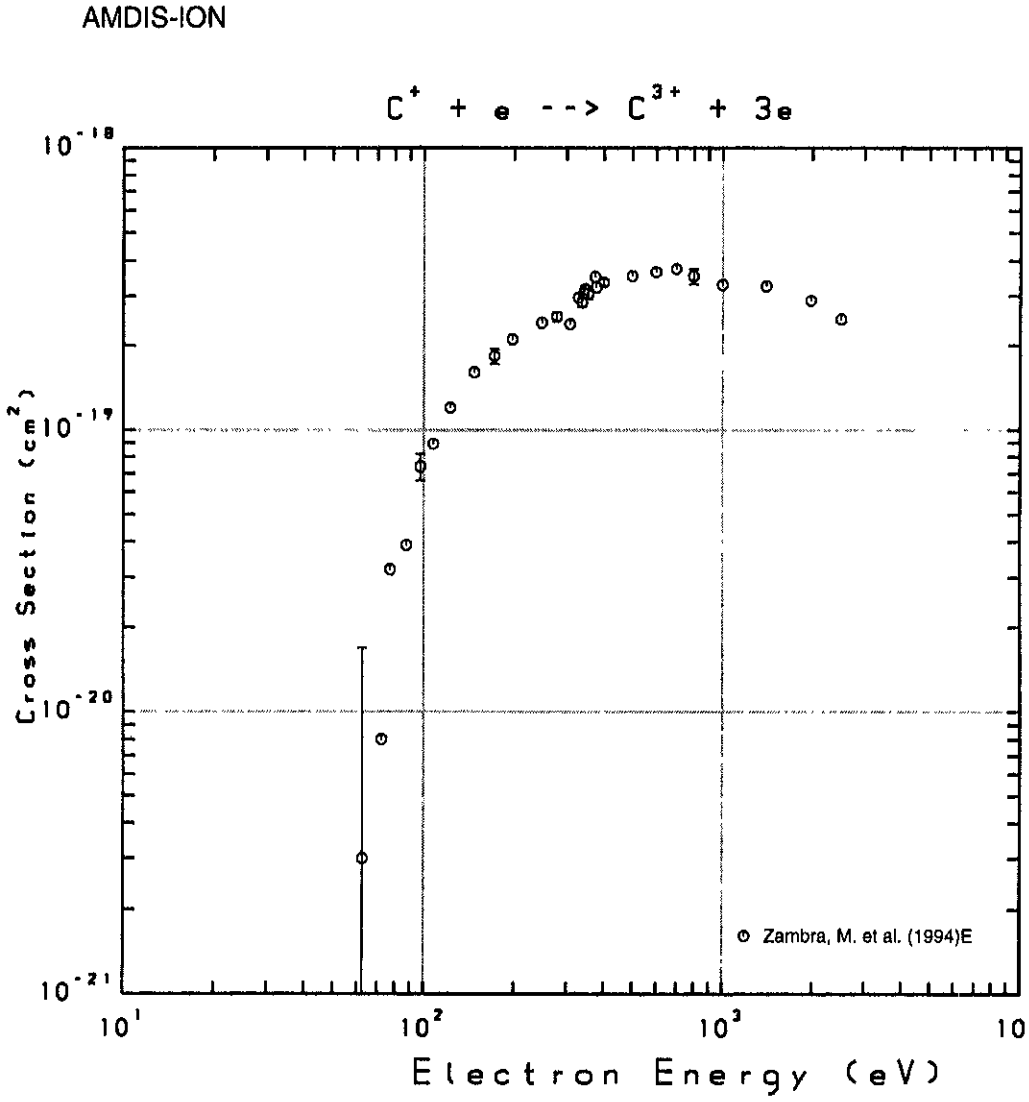

Fig. 24 $C^+ \rightarrow C^{3+}$

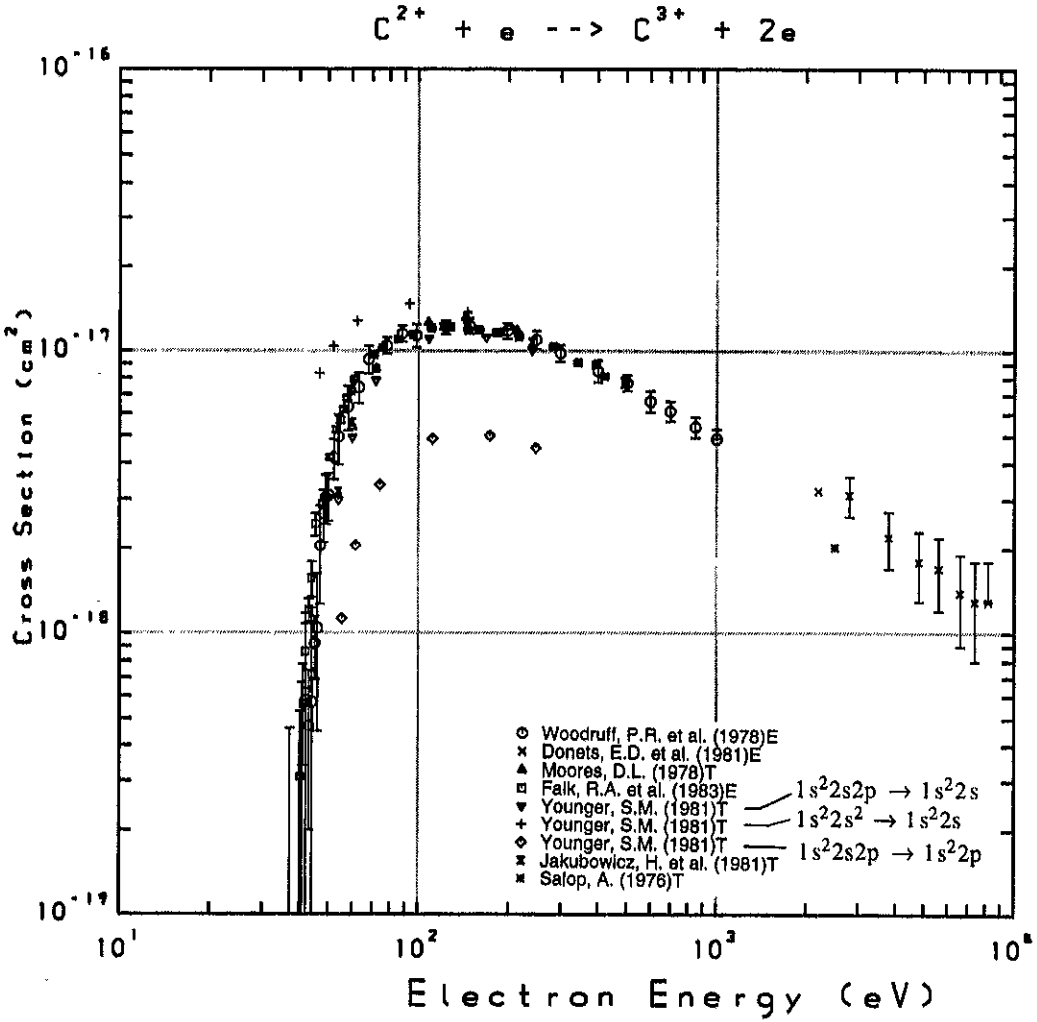

Fig. 25 $C^{2+} \rightarrow C^{3+}$

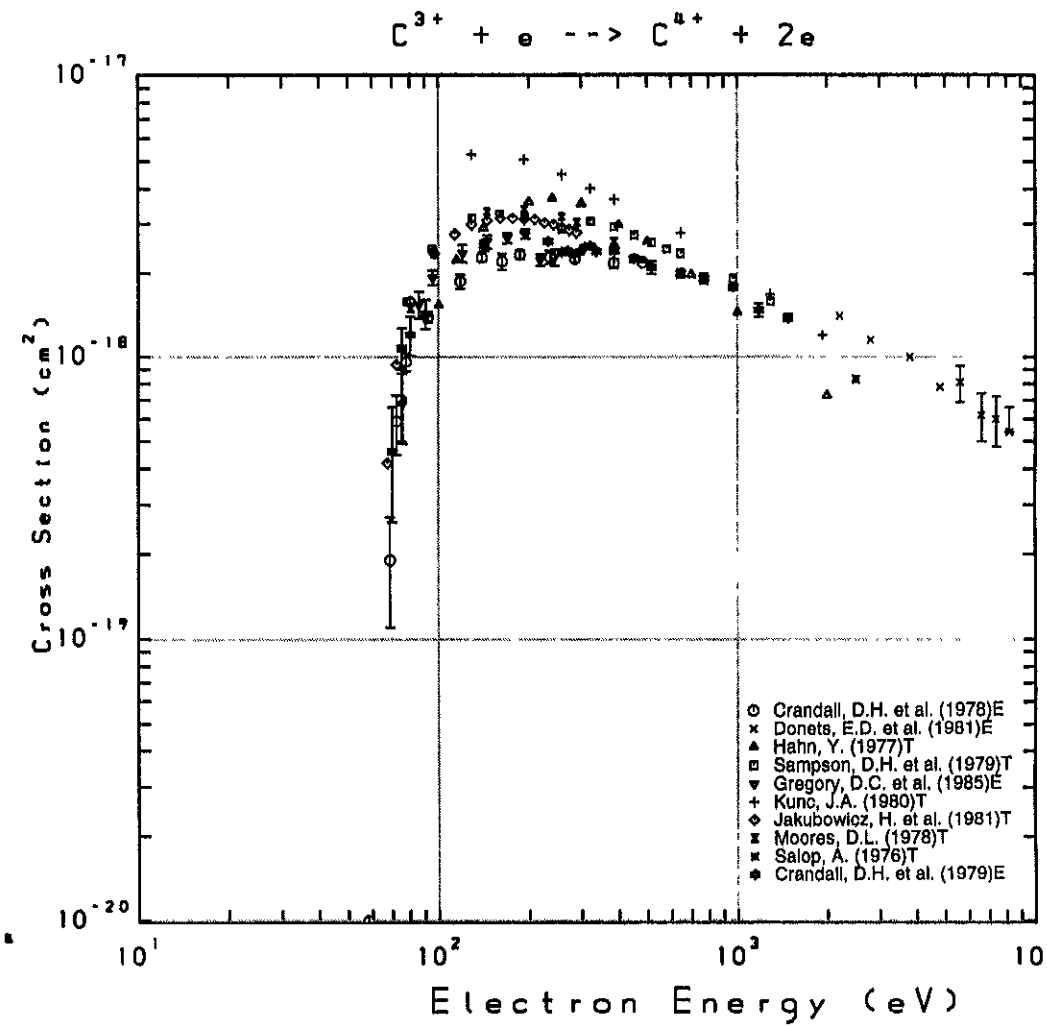

Fig. 26 $C^{3+} \rightarrow C^{4+}$

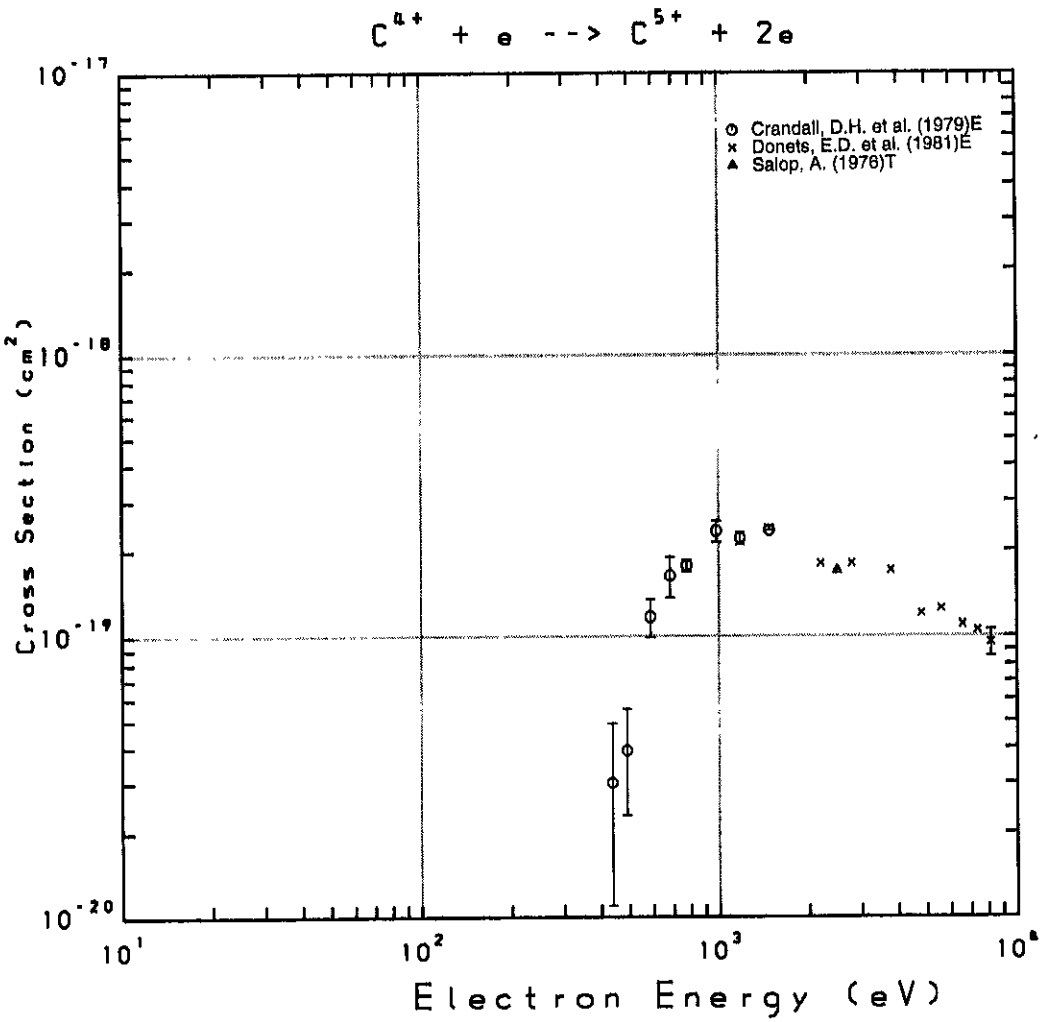

Fig. 27 $C^{4+} \rightarrow C^{5+}$

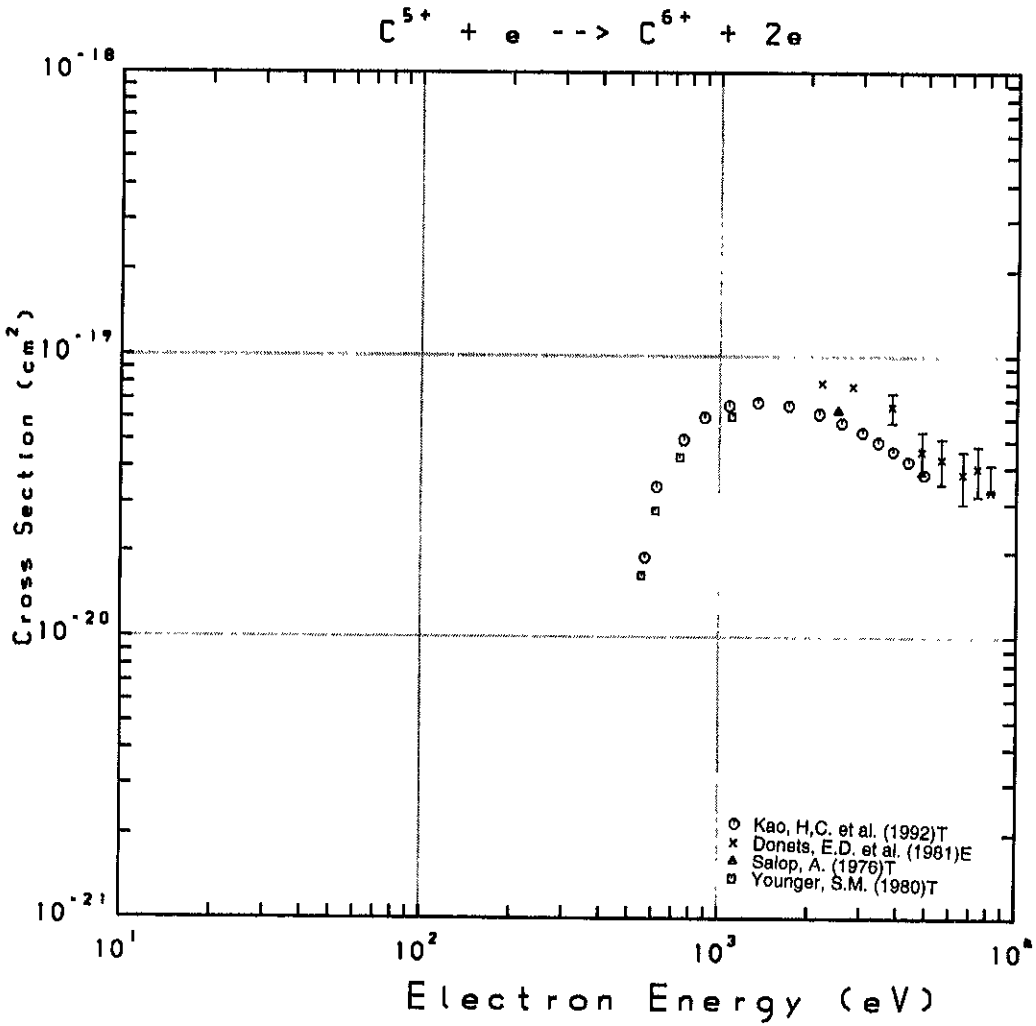

Fig. 28 $C^{5+} \rightarrow C^{6+}$

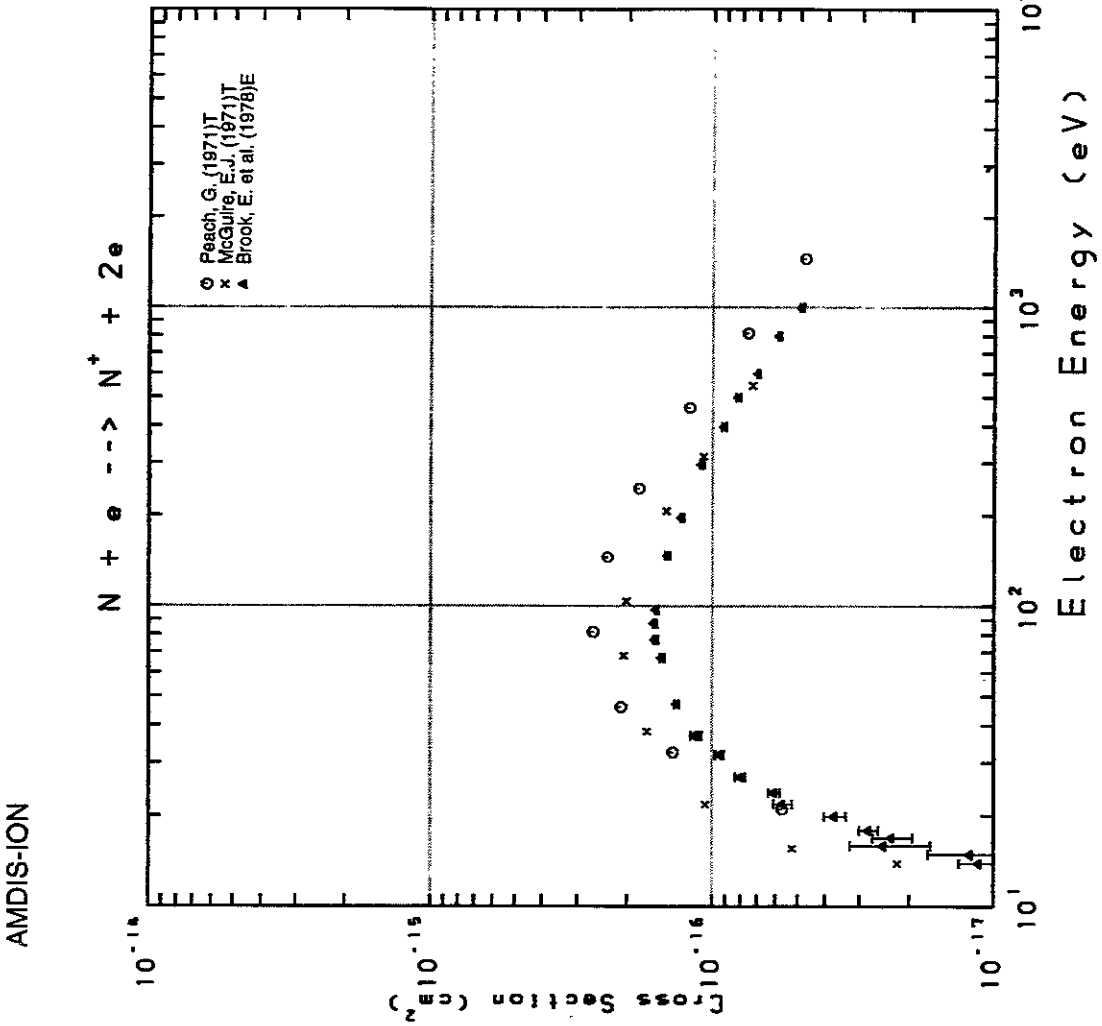

Fig. 30 $N \rightarrow N^+$

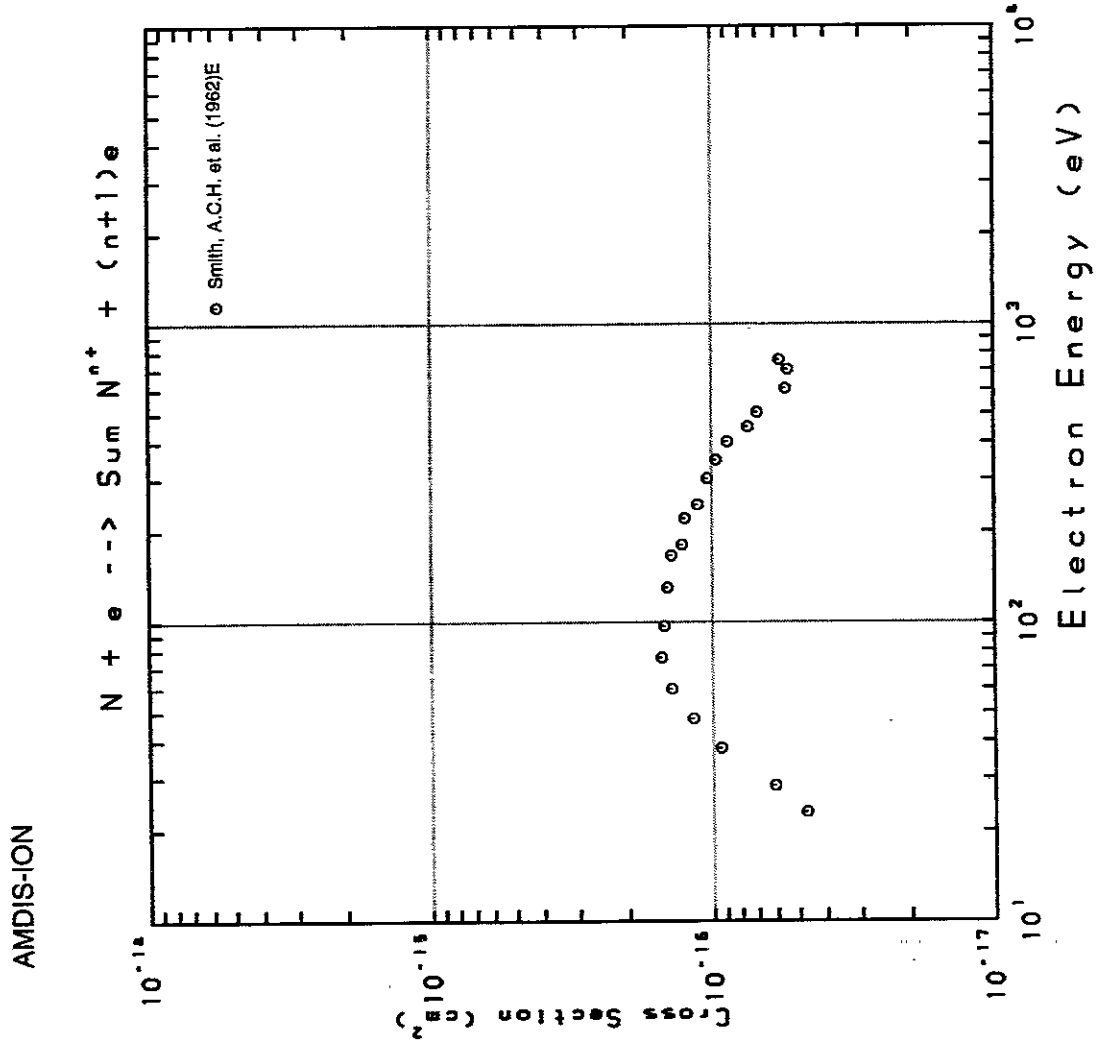

Fig. 29 $N \rightarrow \Sigma N^{n+}$

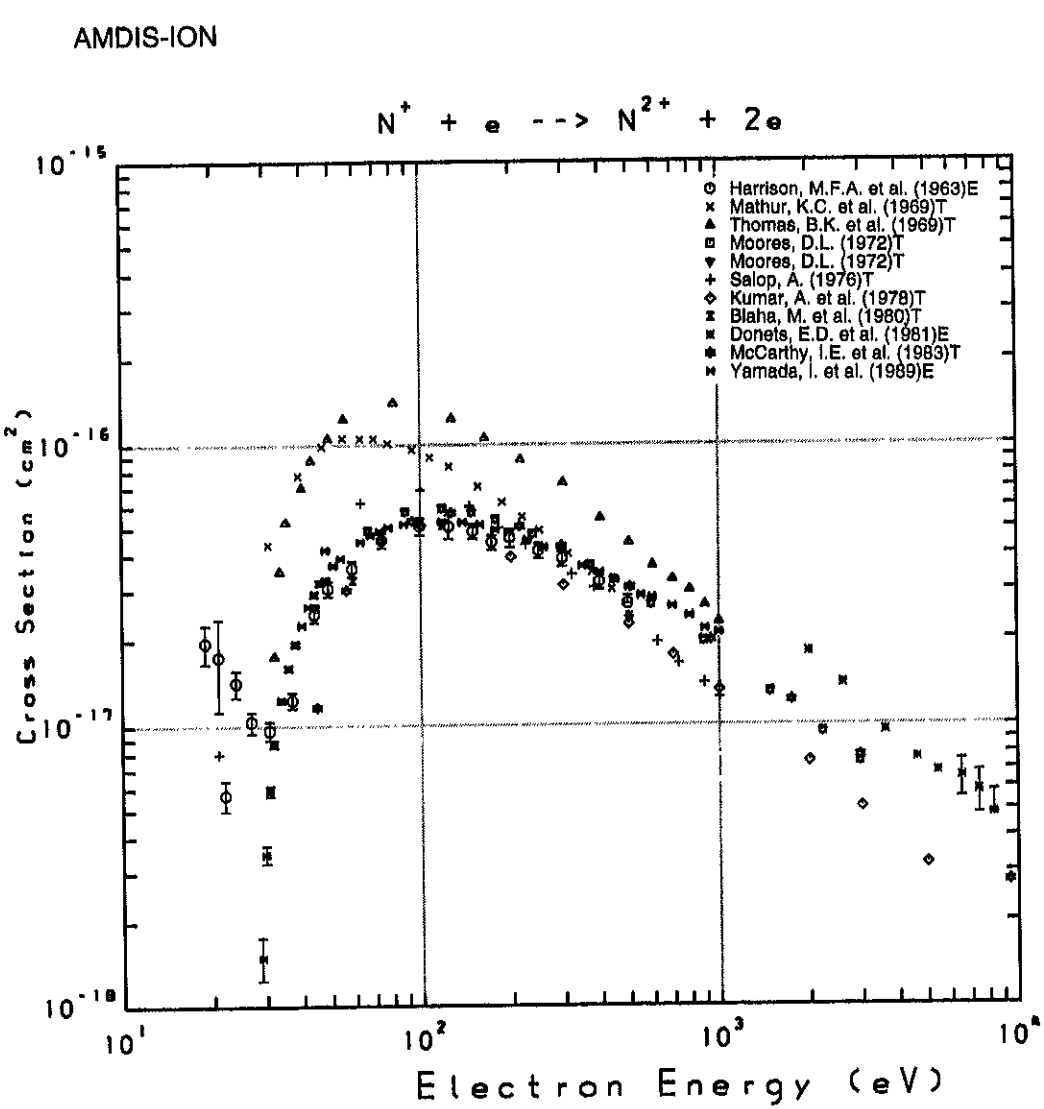

Fig. 31 $N^+ \rightarrow N^{2+}$

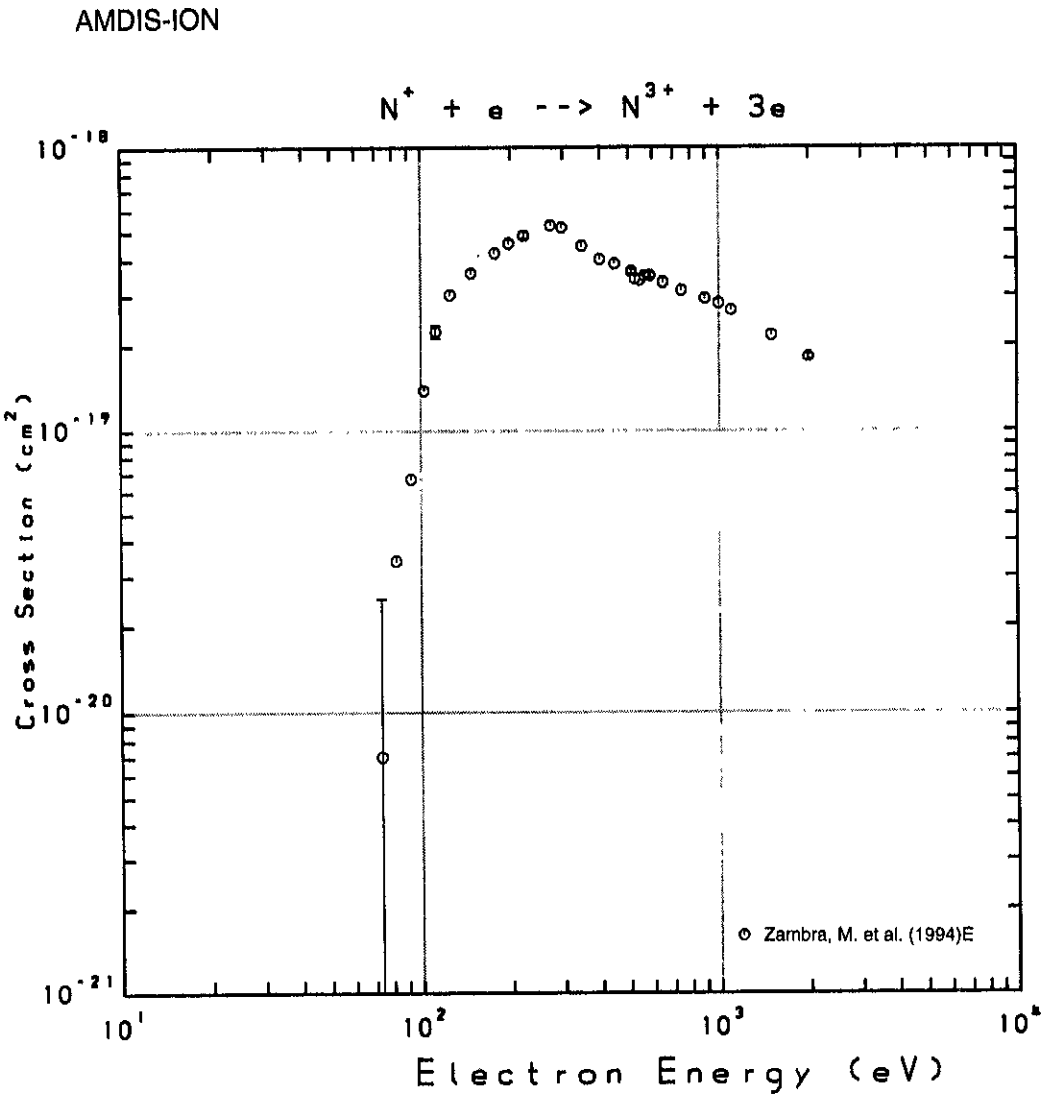

Fig. 32 $N^+ \rightarrow N^{3+}$

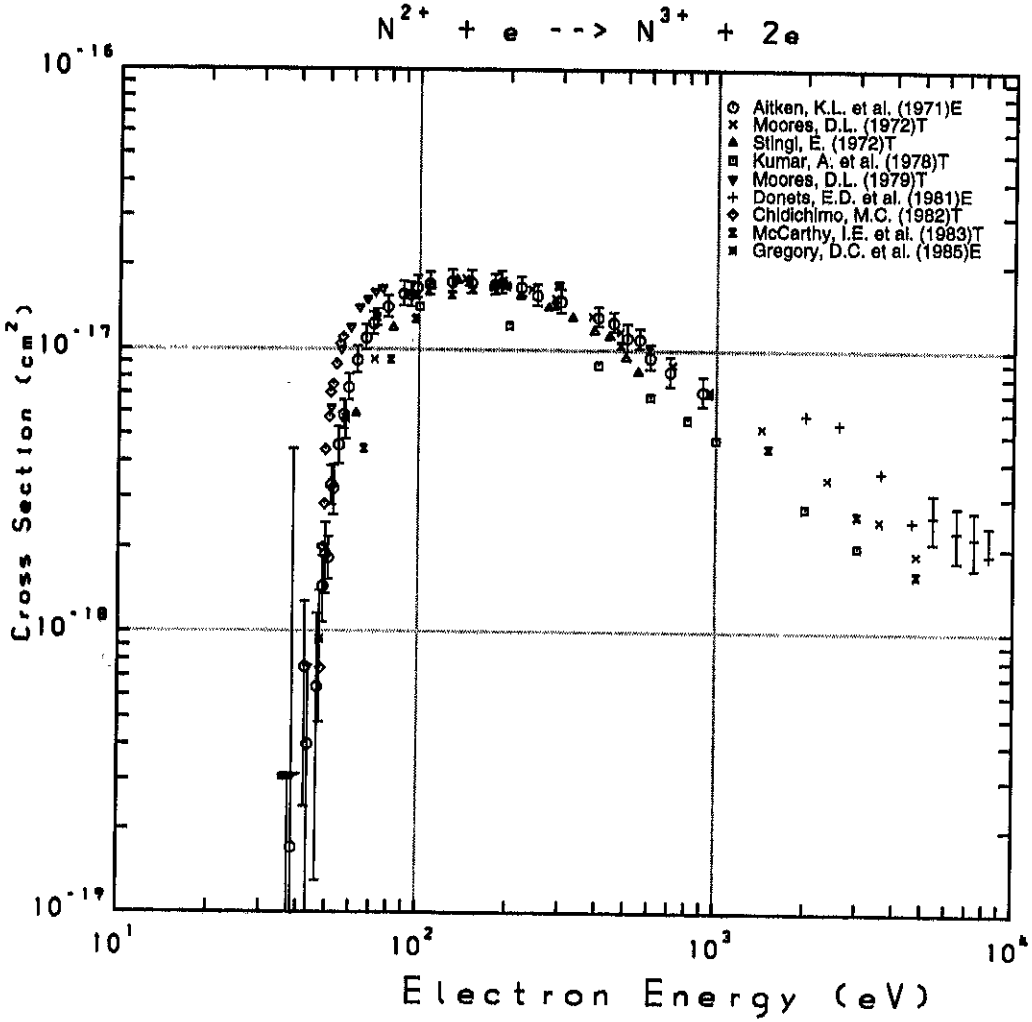

Fig. 33 $N^{2+} \rightarrow N^{3+}$

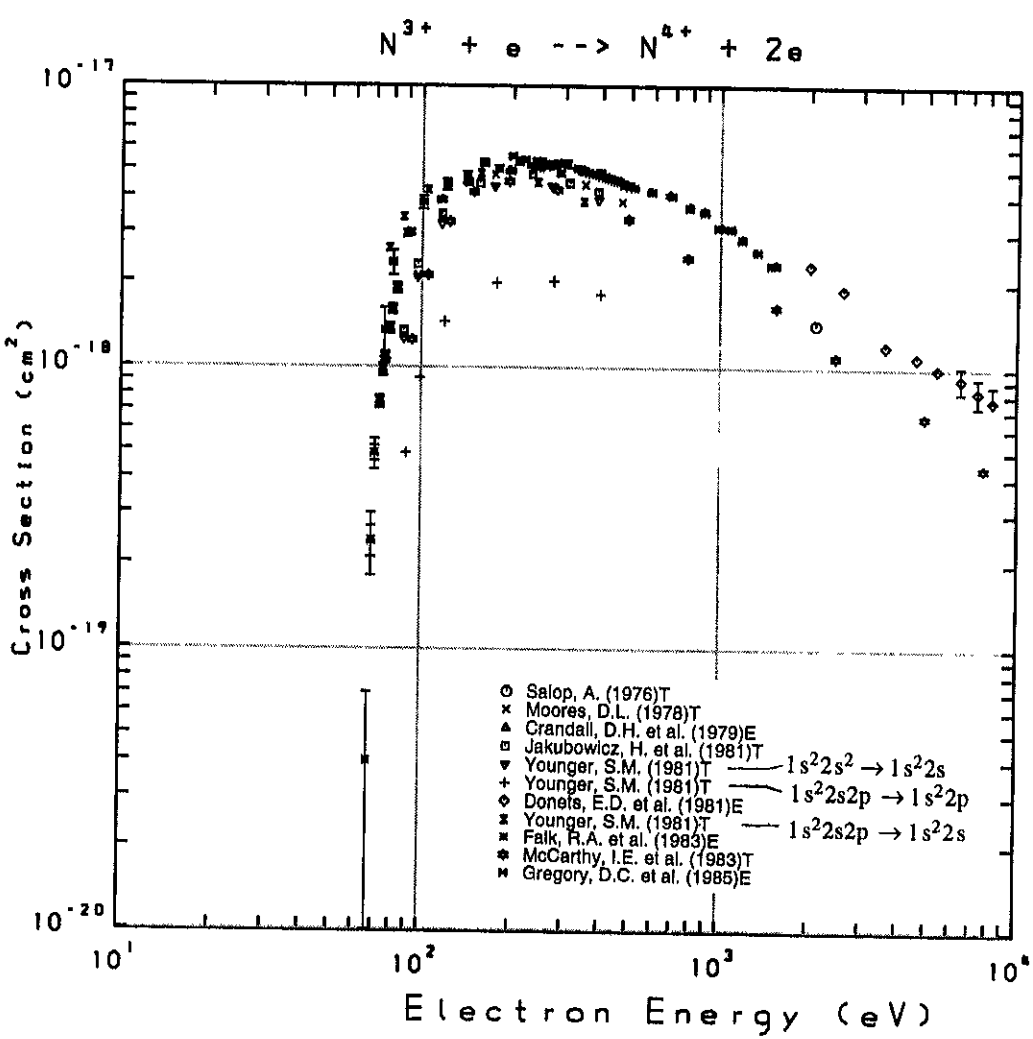

Fig. 34 $N^{3+} \rightarrow N^{4+}$

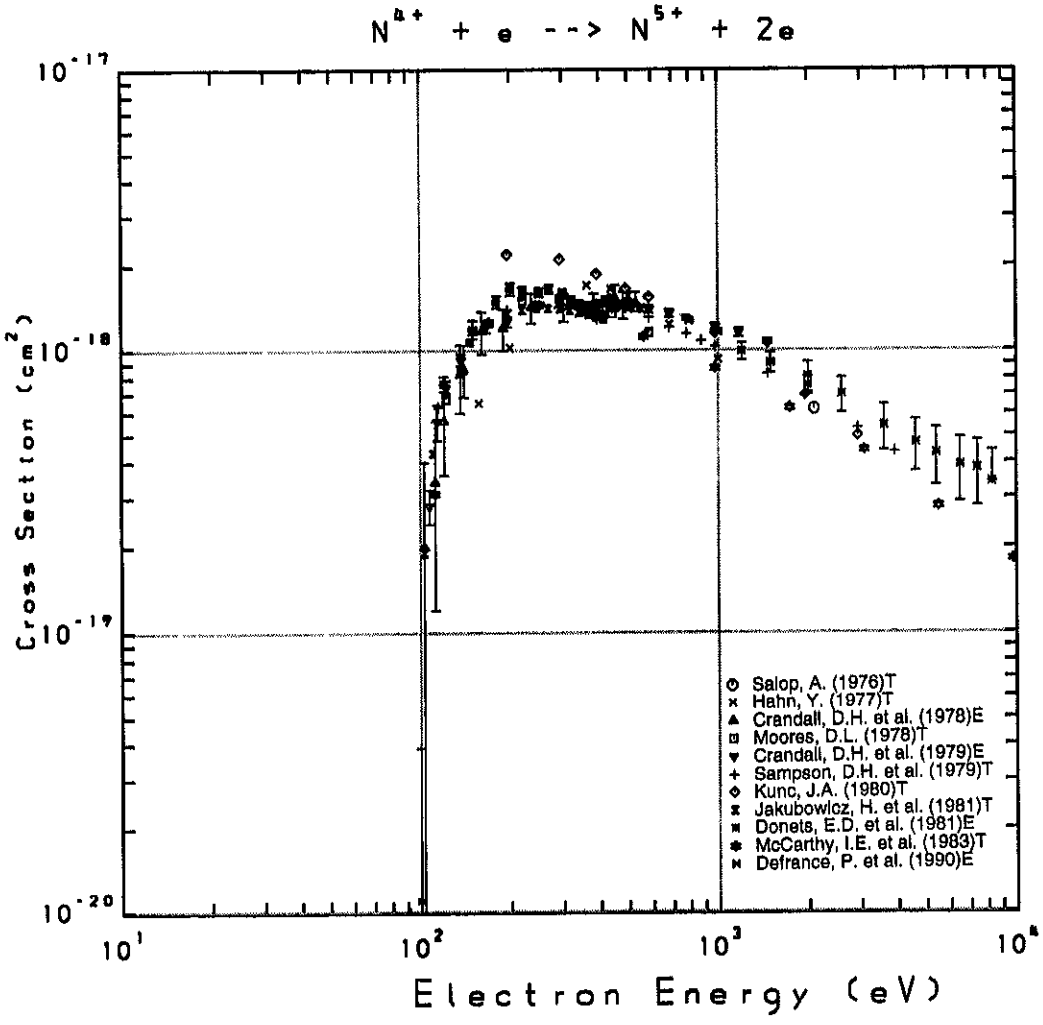

Fig. 35 $N^{4+} \rightarrow N^{5+}$

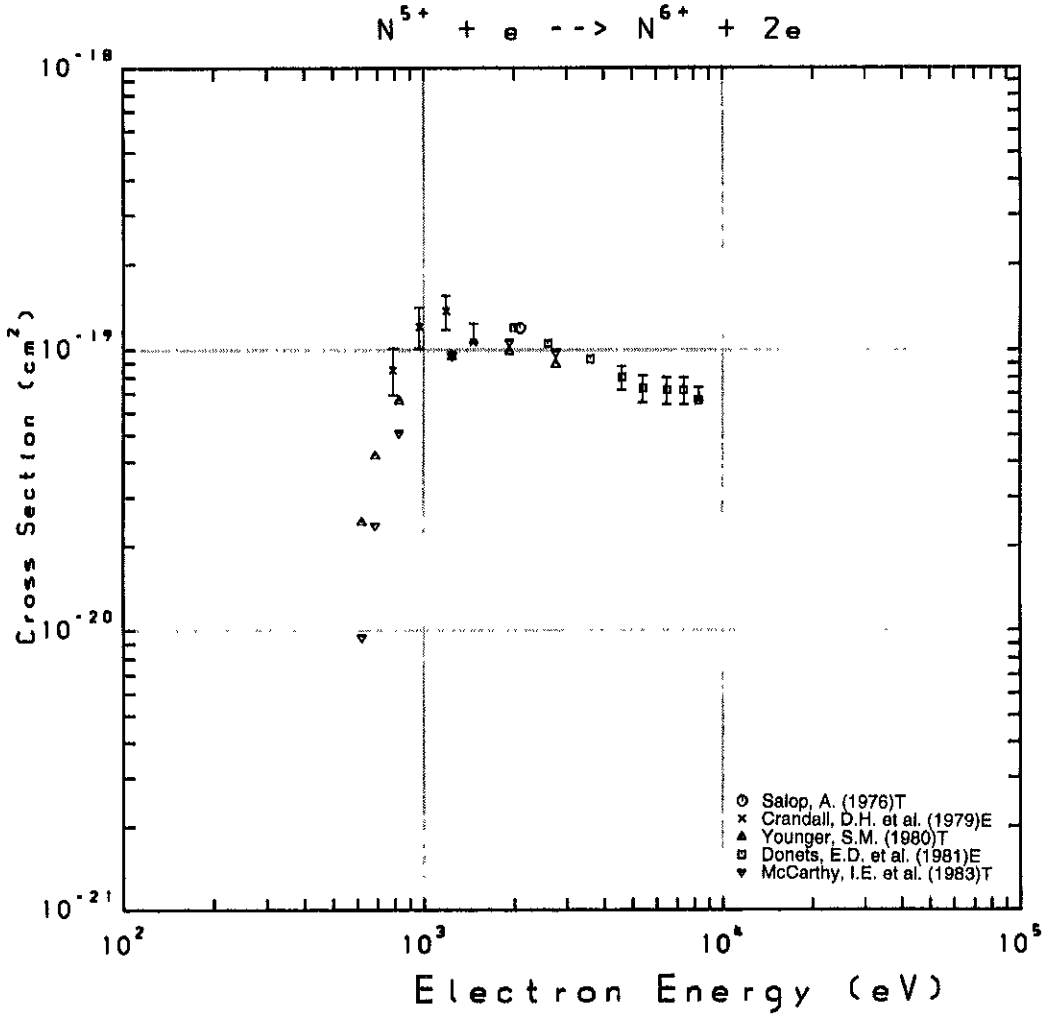

Fig. 36 $N^{5+} \rightarrow N^{6+}$

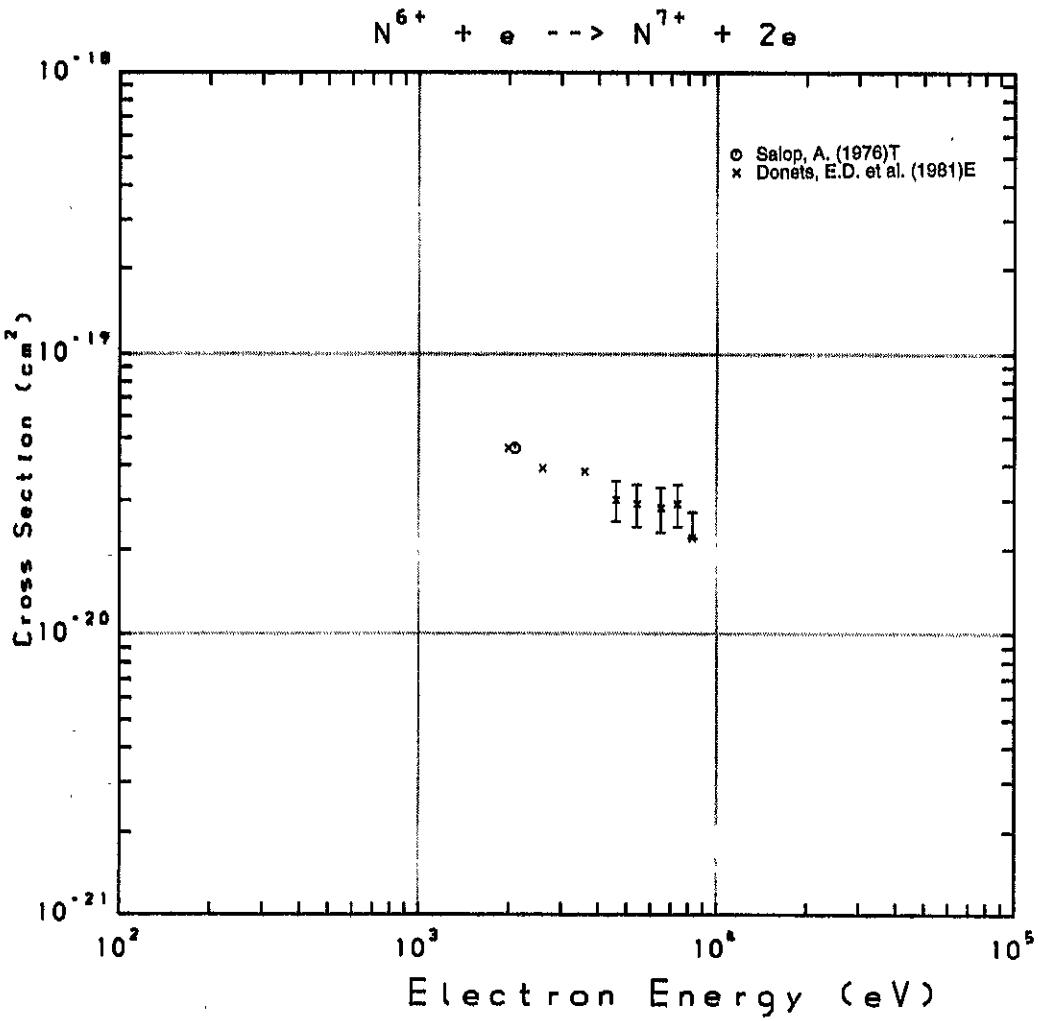

Fig. 37 $N^{6+} \rightarrow N^{7+}$

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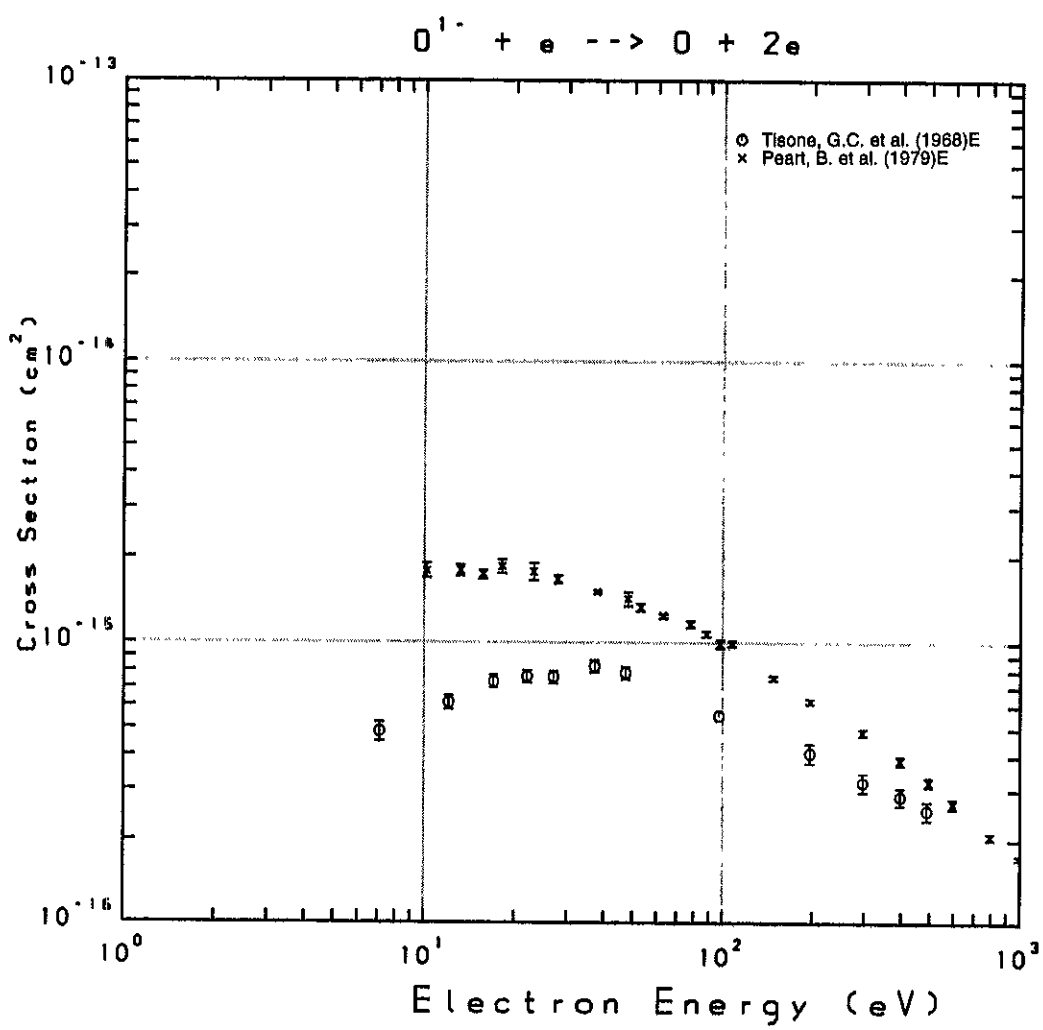

Fig. 38 $O^- \rightarrow O^0$

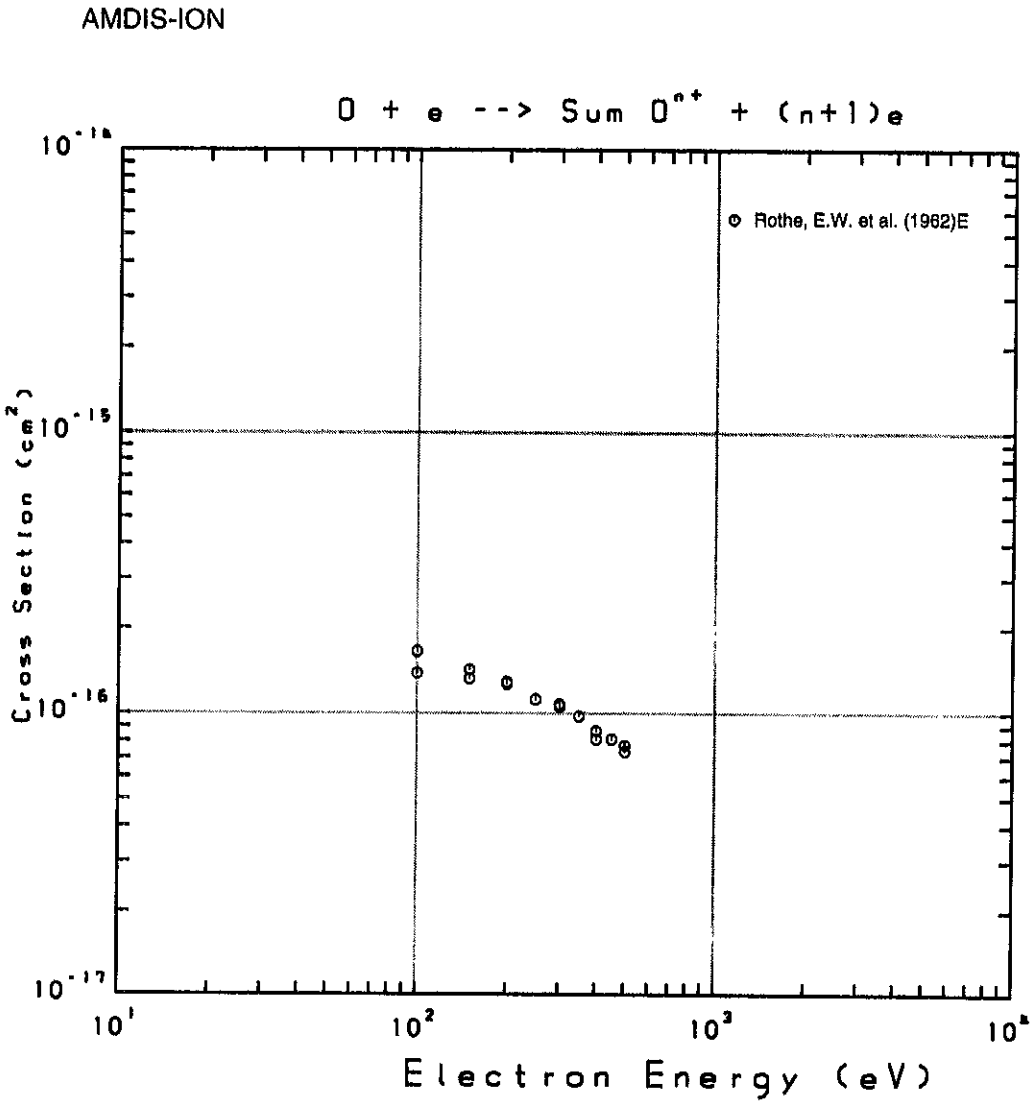

Fig. 39 $O \rightarrow \Sigma O^{n+}$

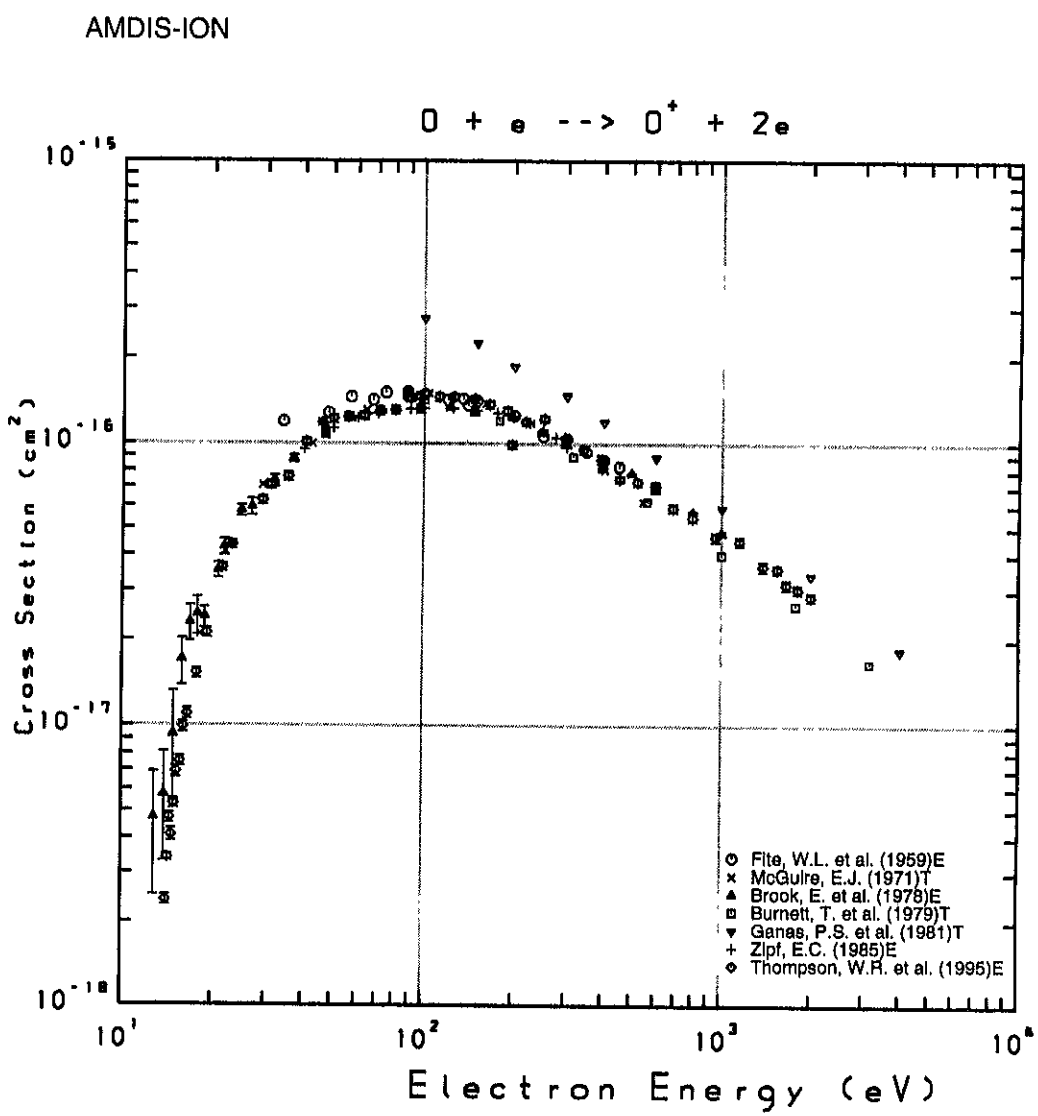

Fig. 40 $O \rightarrow O^{+}$

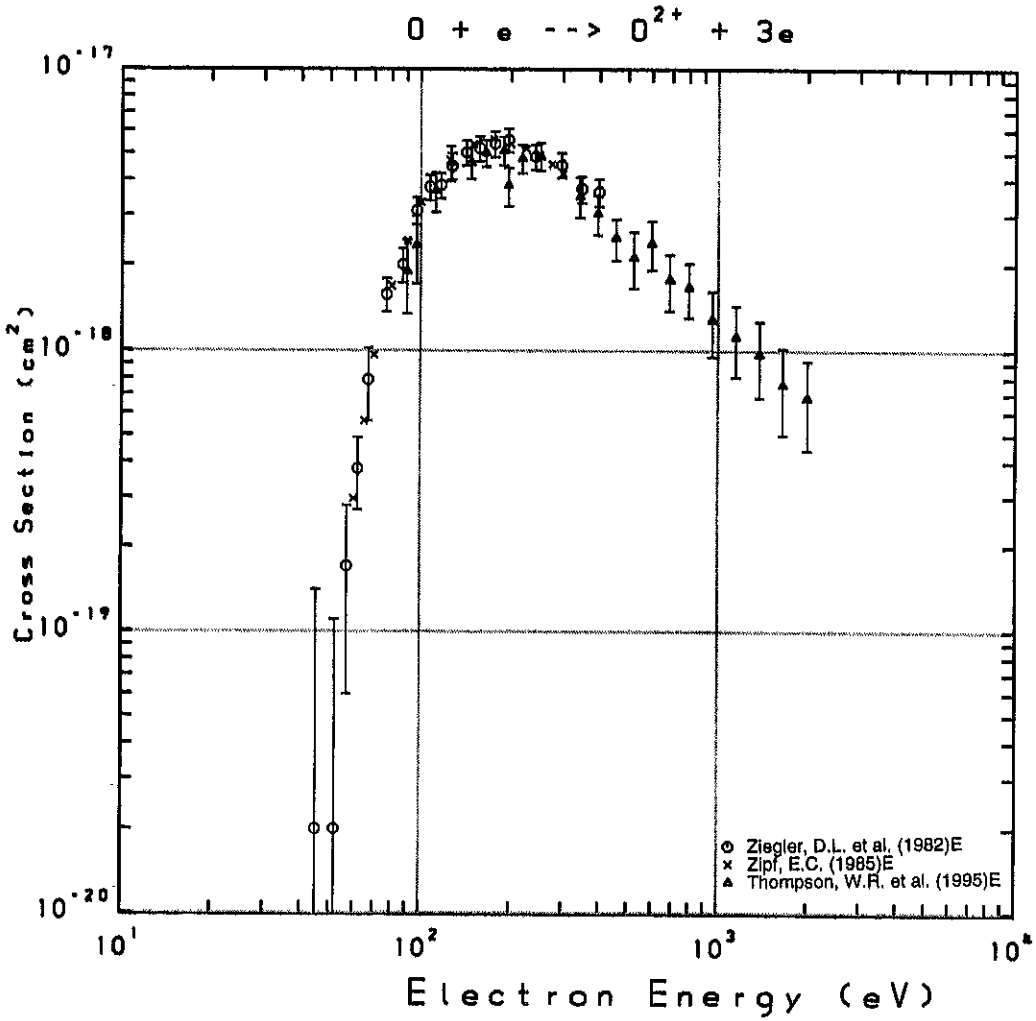

Fig. 41 $O \rightarrow O^{2+}$

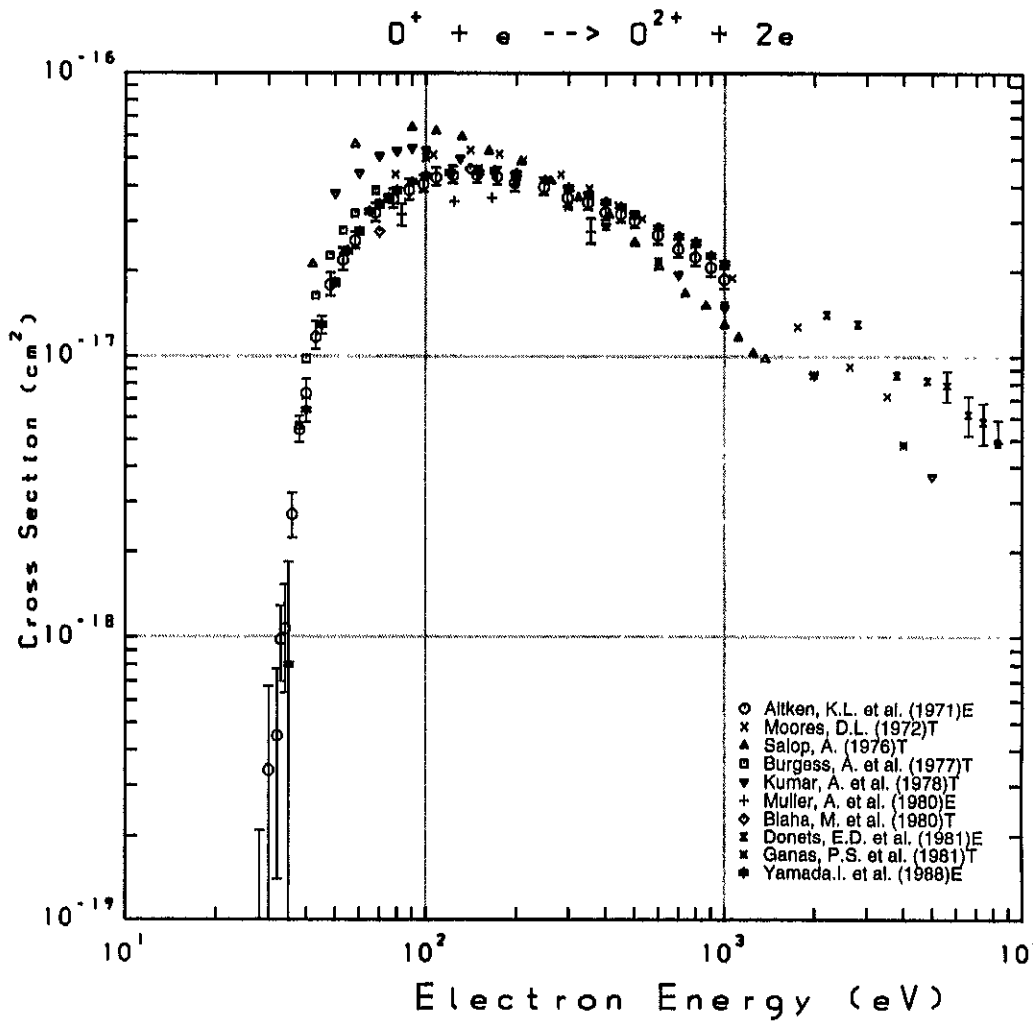

Fig. 42 $O^{+} \rightarrow O^{2+}$

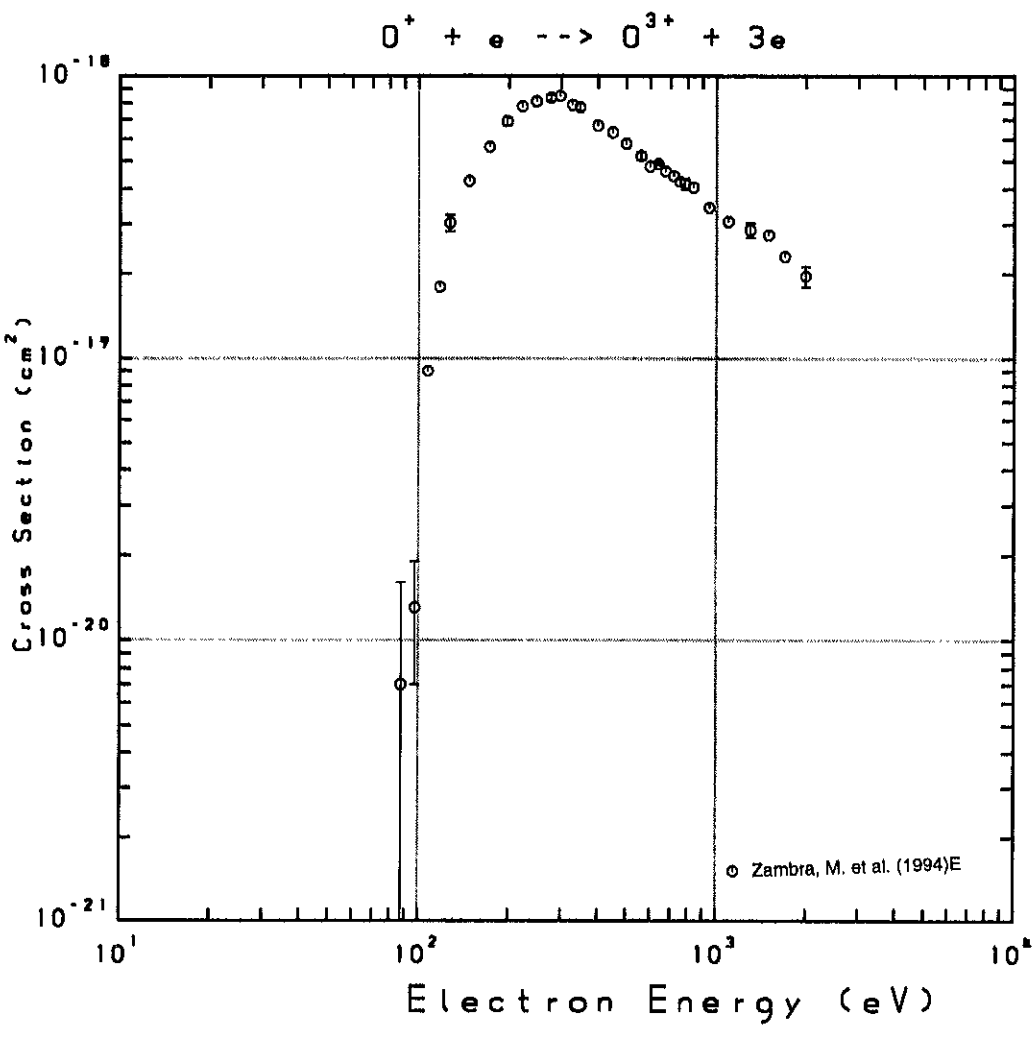

Fig. 43 $O^{+} \rightarrow O^{3+}$

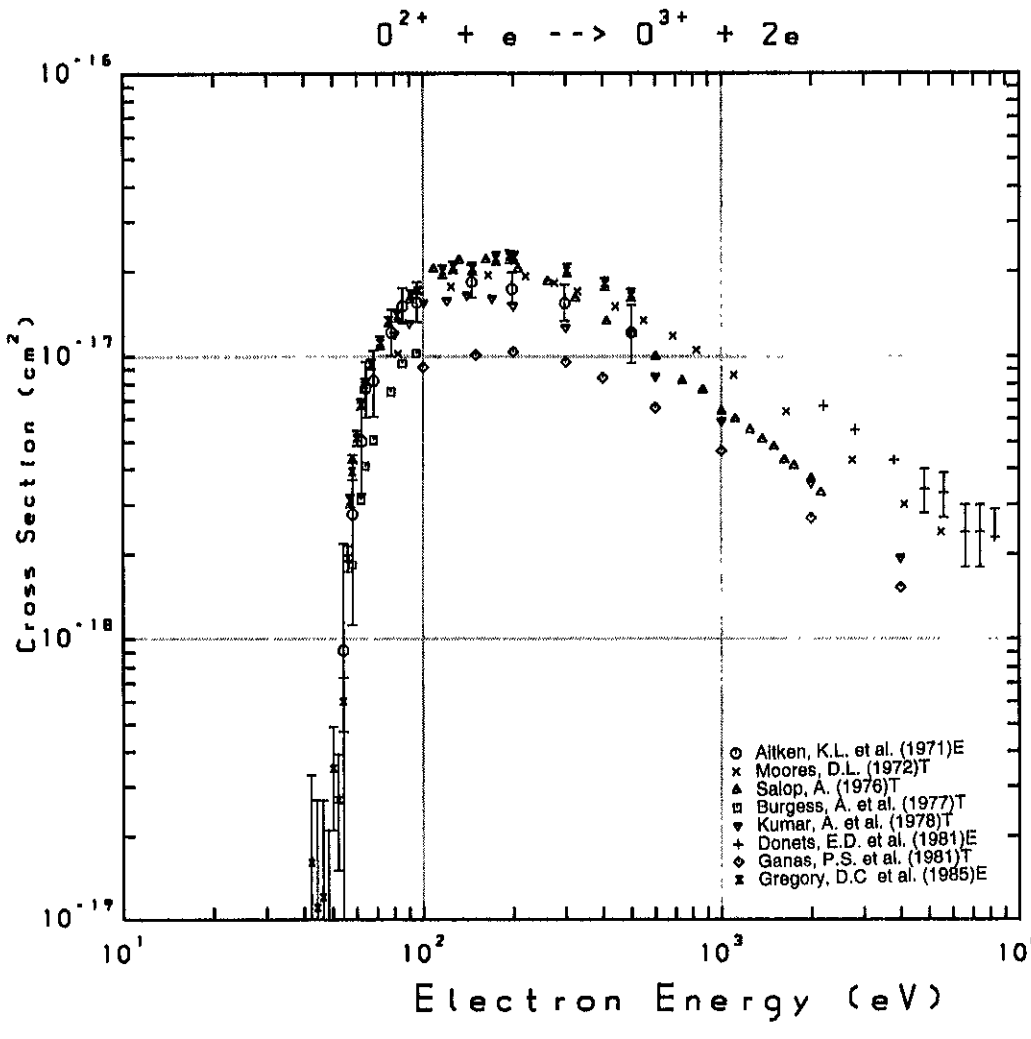

Fig. 44 $O^{2+} \rightarrow O^{3+}$

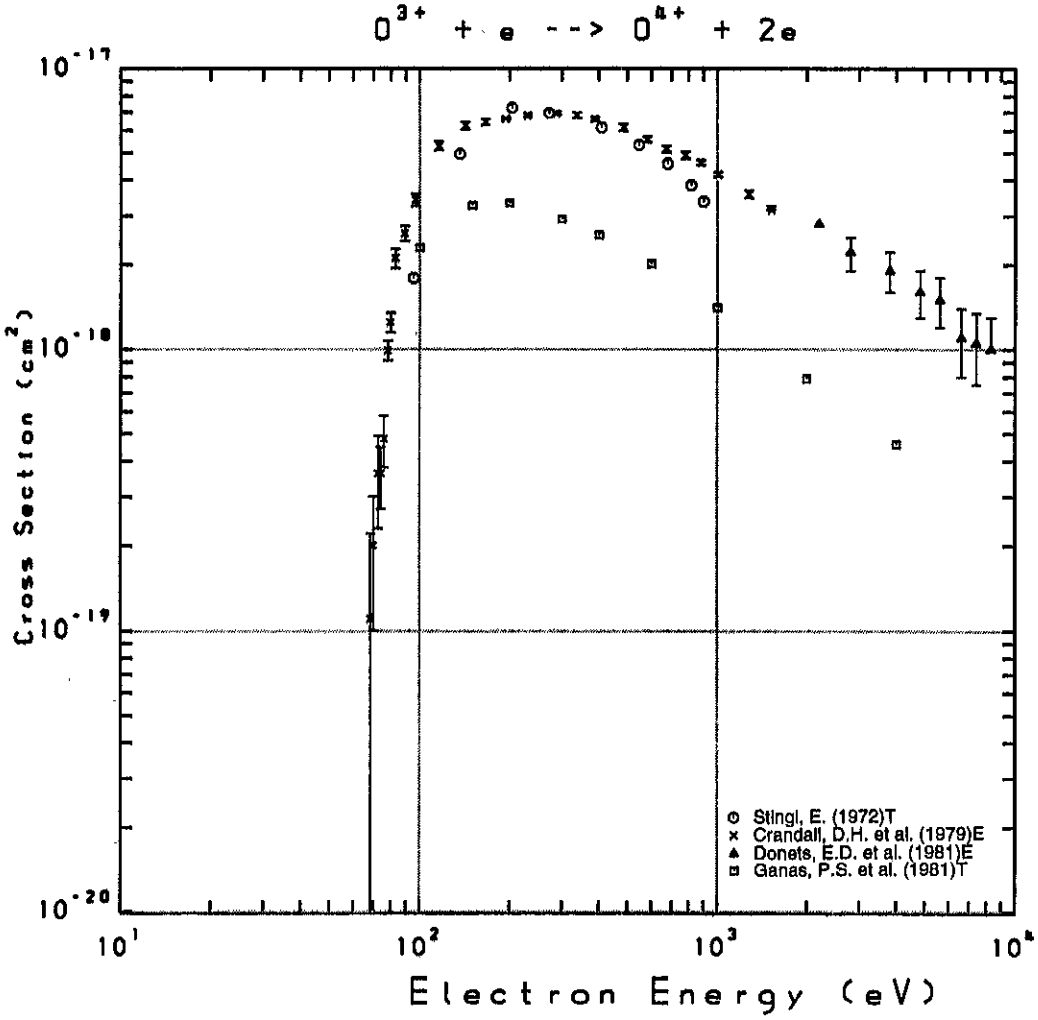

Fig. 45 $O^{3+} \rightarrow O^{4+}$

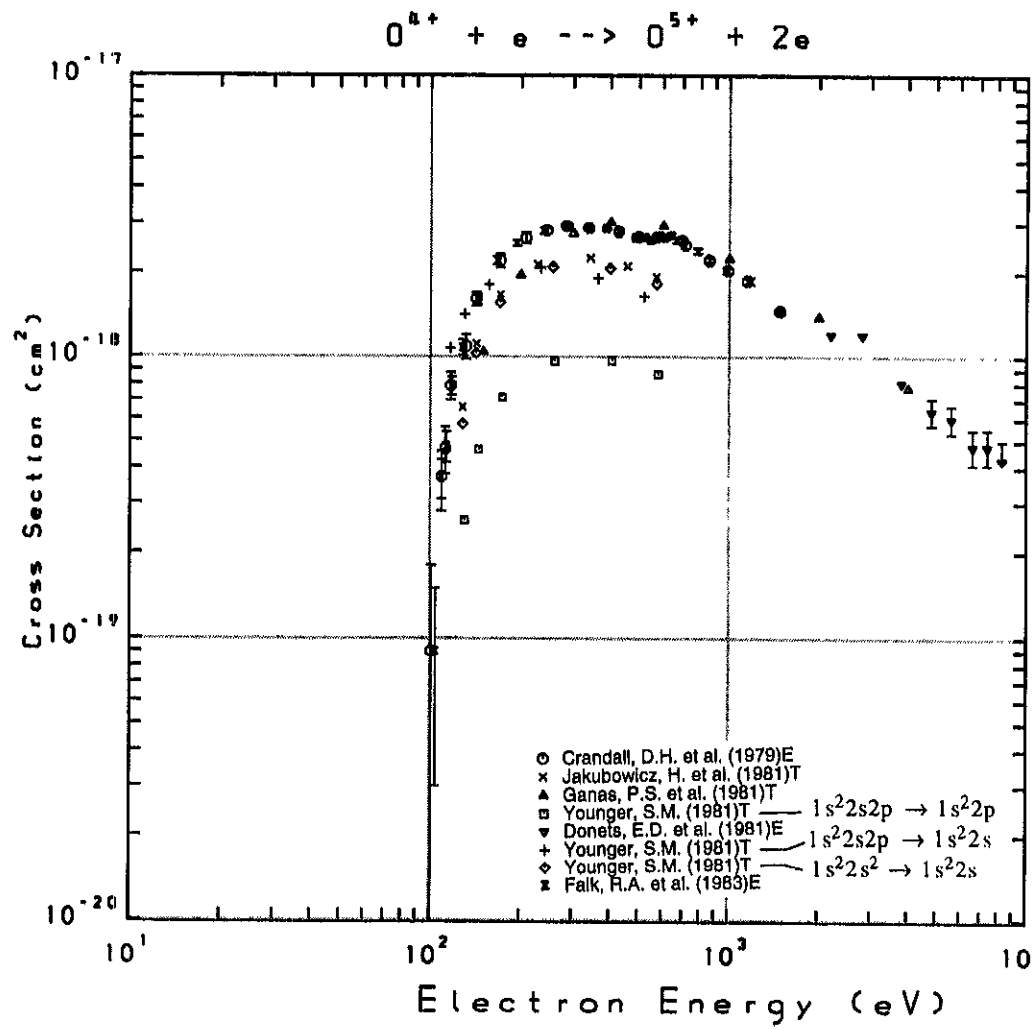

Fig. 46 $O^{4+} \rightarrow O^{5+}$

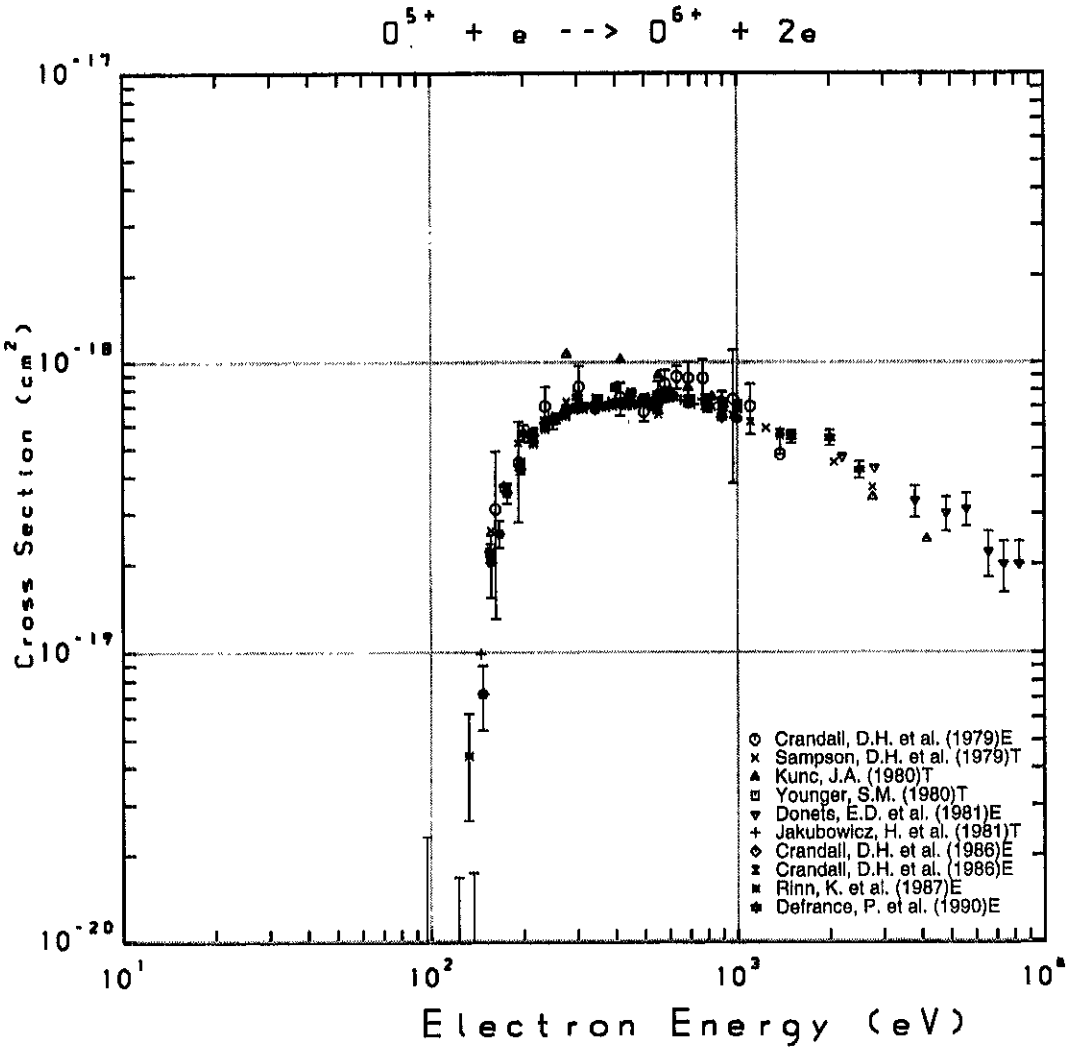

Fig. 47 $O^{5+} \rightarrow O^{6+}$

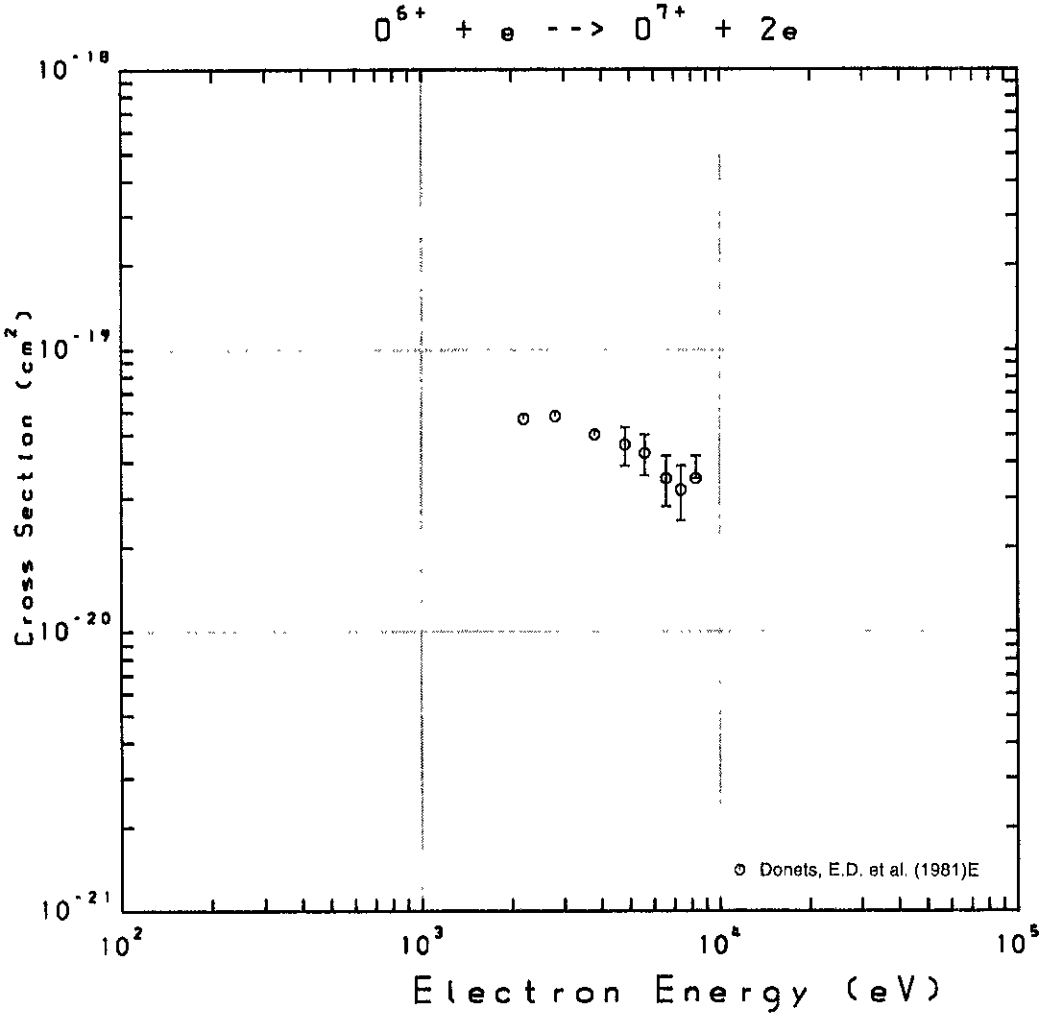

Fig. 48 $O^{6+} \rightarrow O^{7+}$

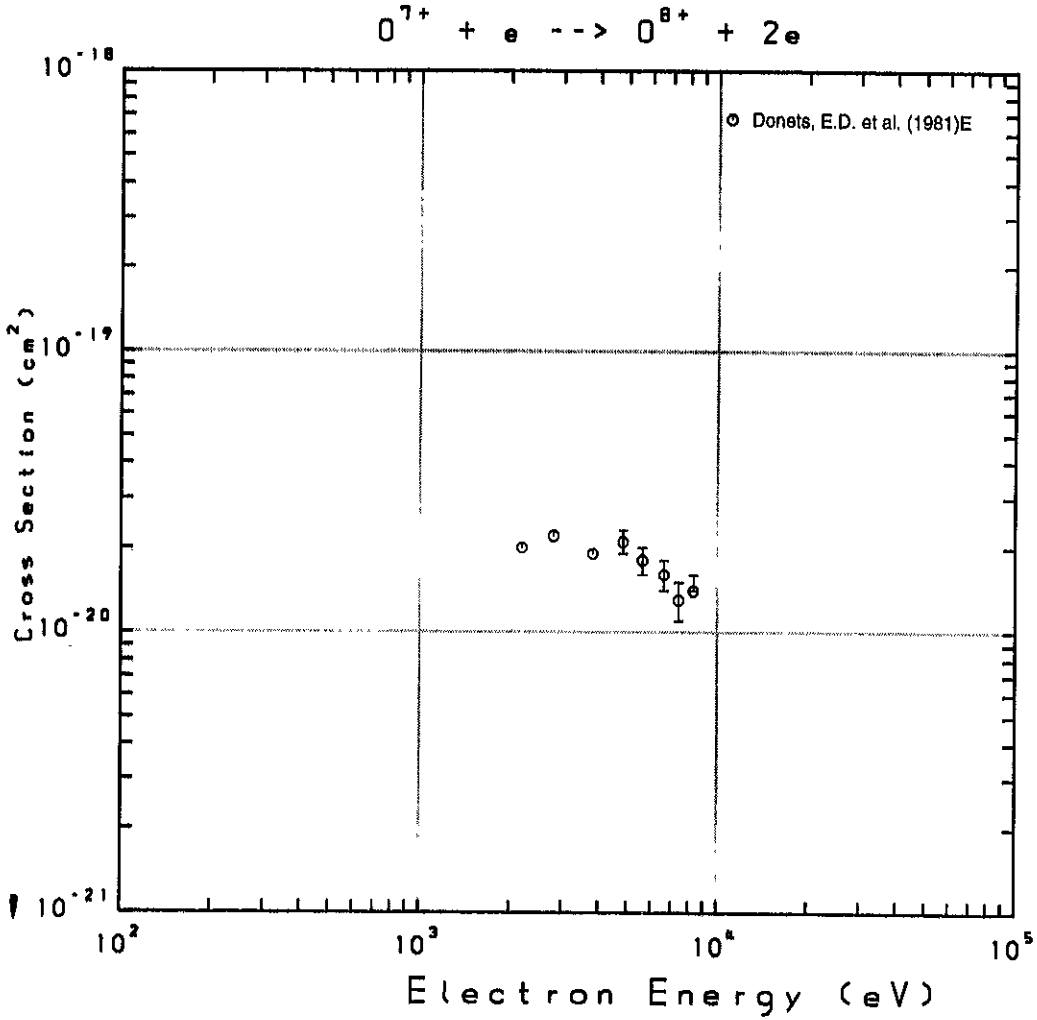

Fig. 49 $O^{7+} \rightarrow O^{8+}$

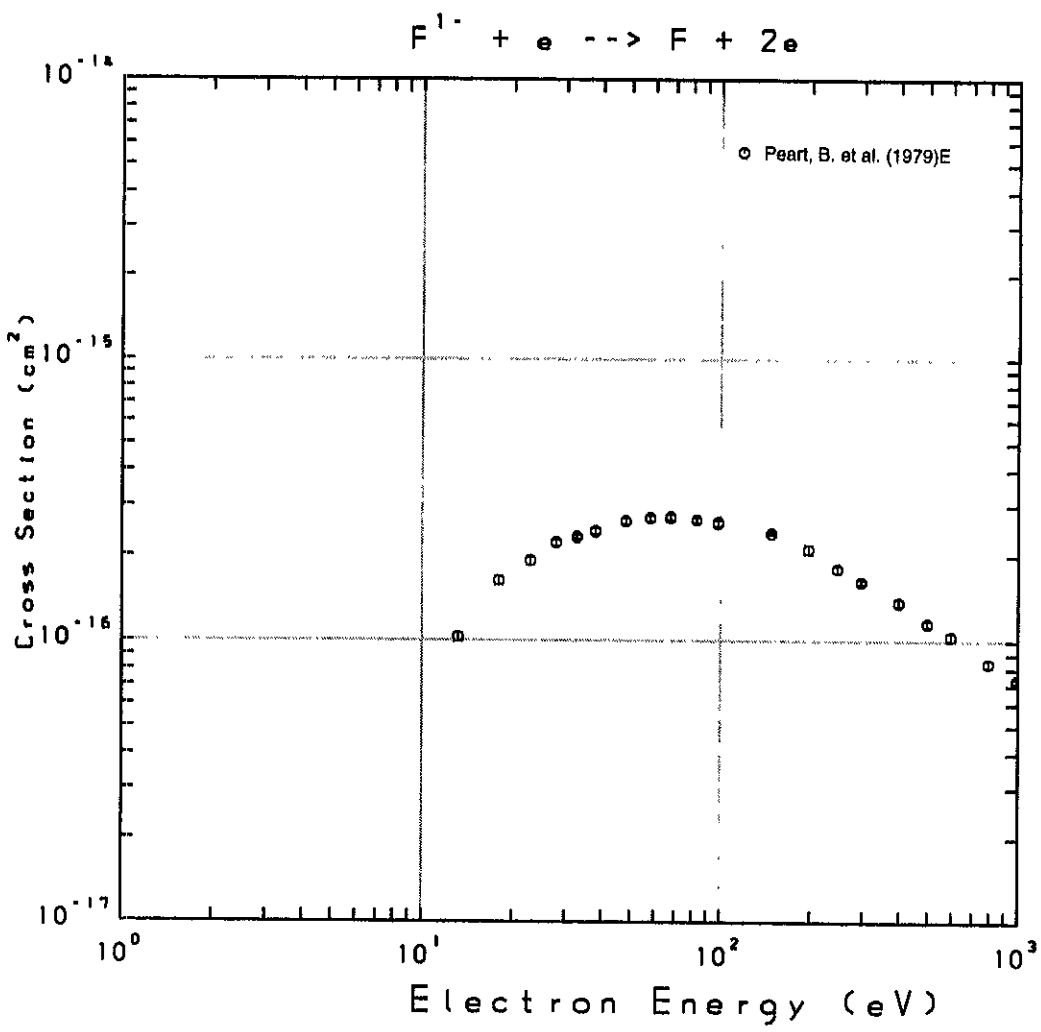

Fig. 50 $F^- \rightarrow F^0$

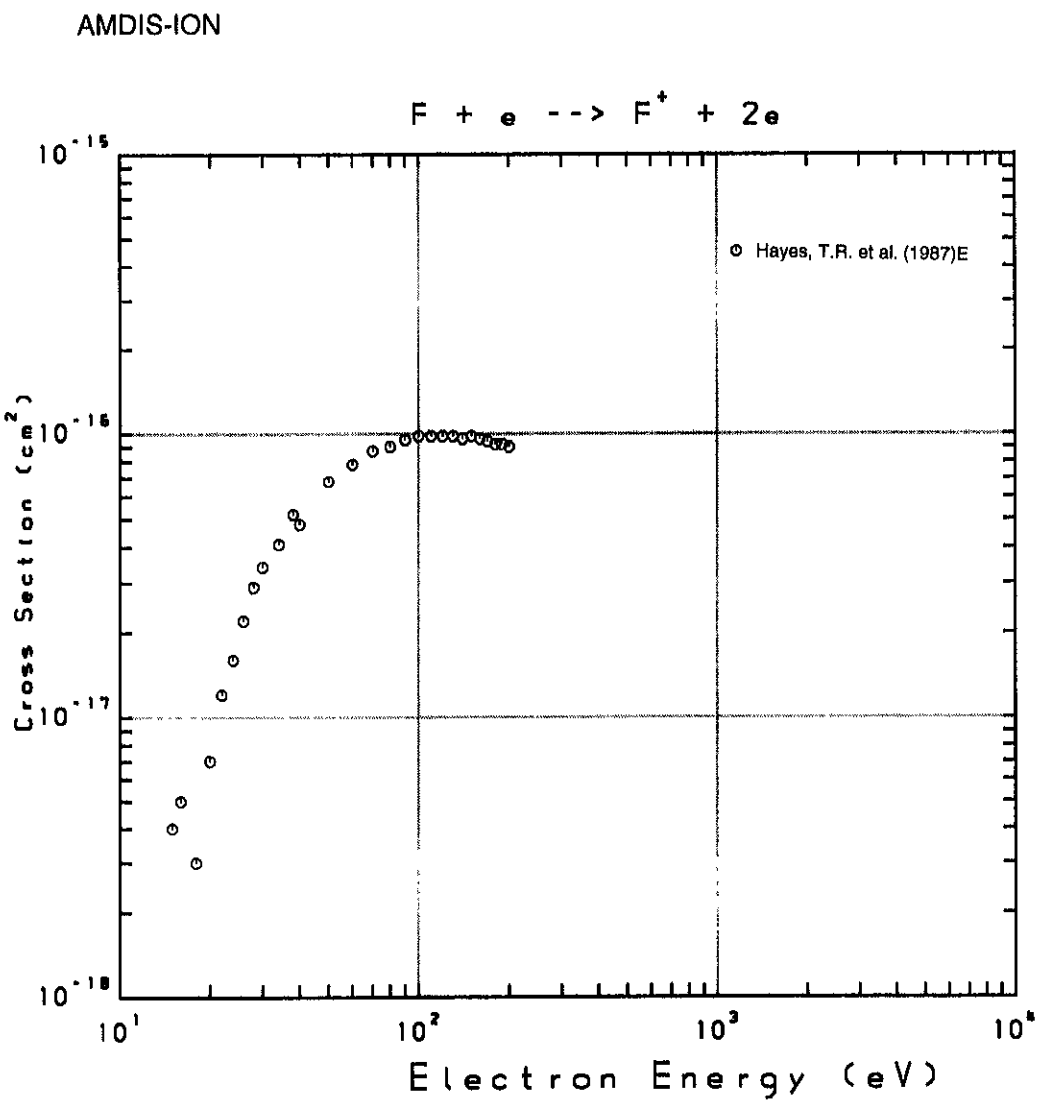

Fig. 51 F → F+

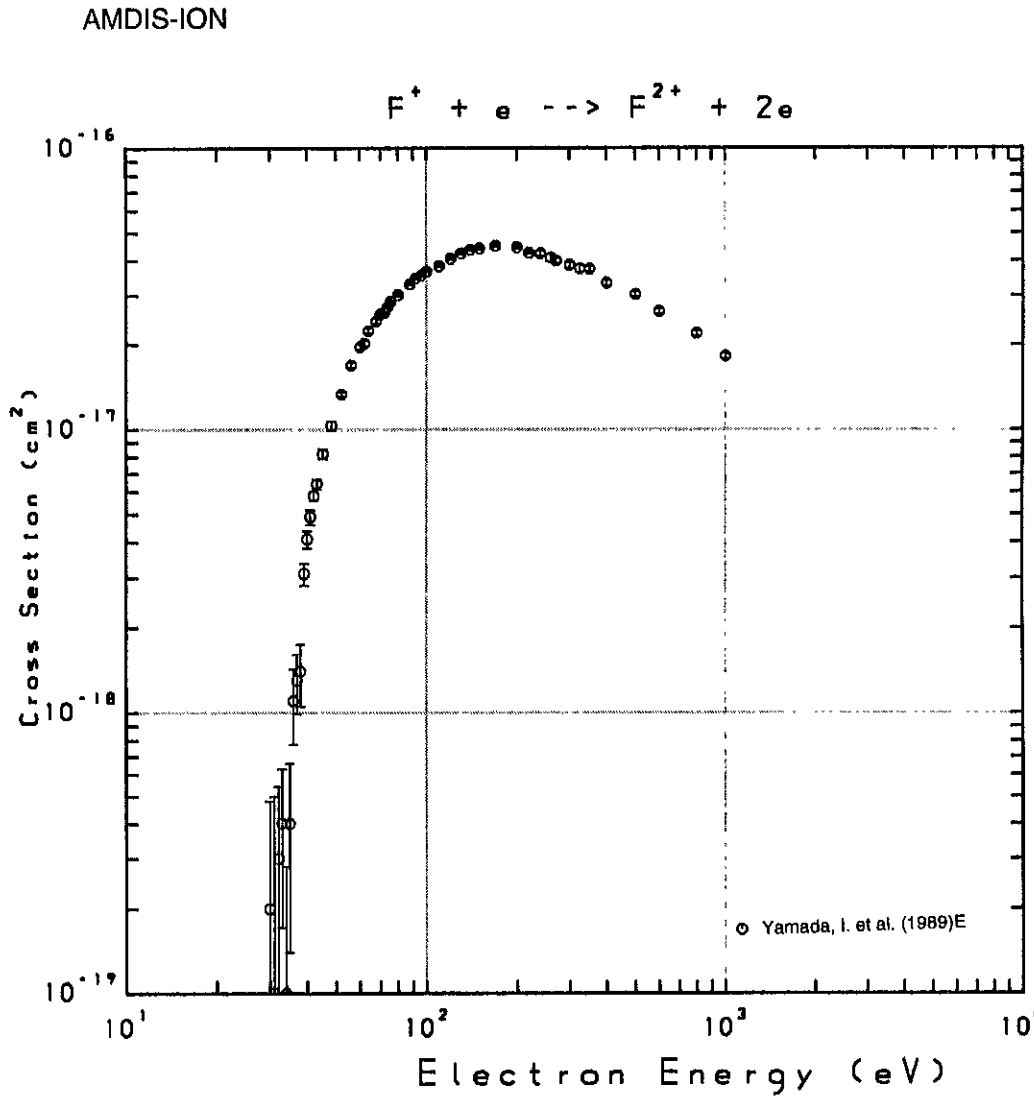

Fig. 52 F+ → F2+

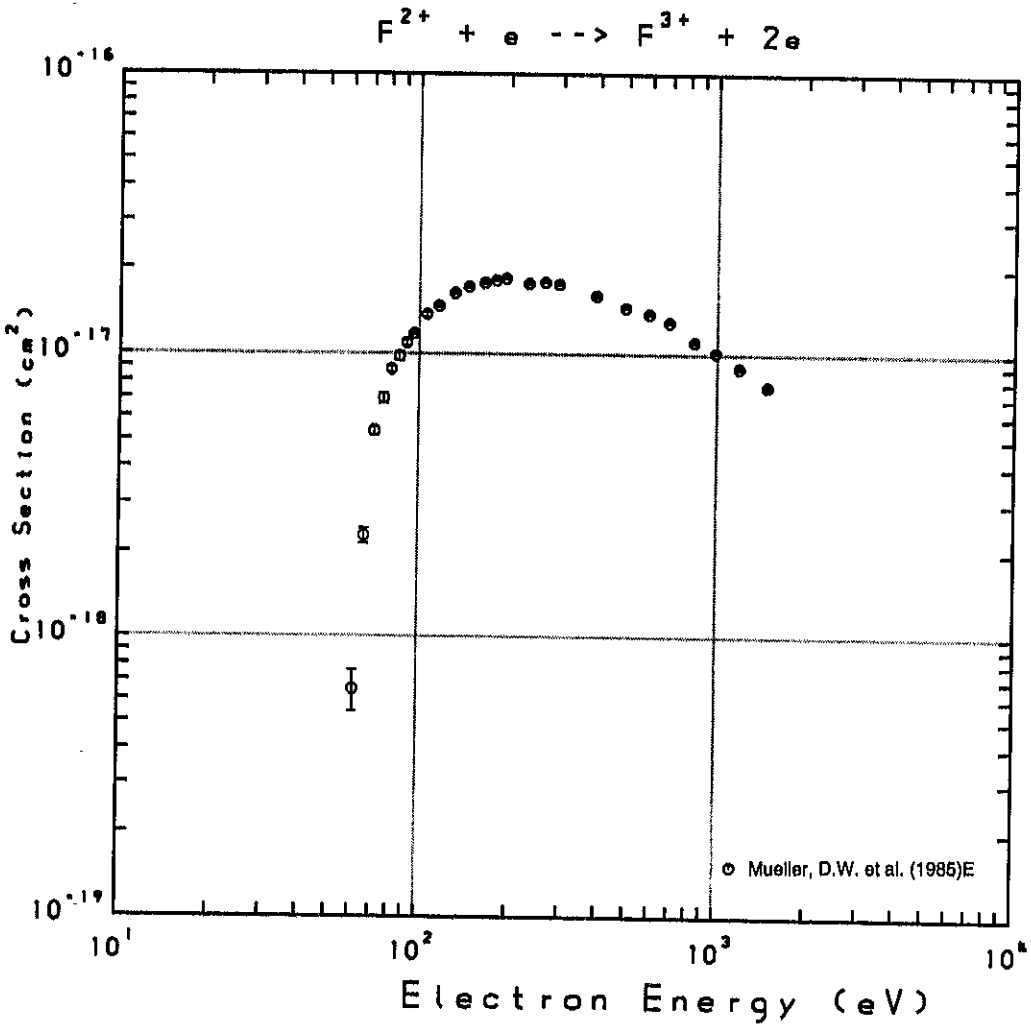

Fig. 53 $F^{2+} \rightarrow F^{3+}$

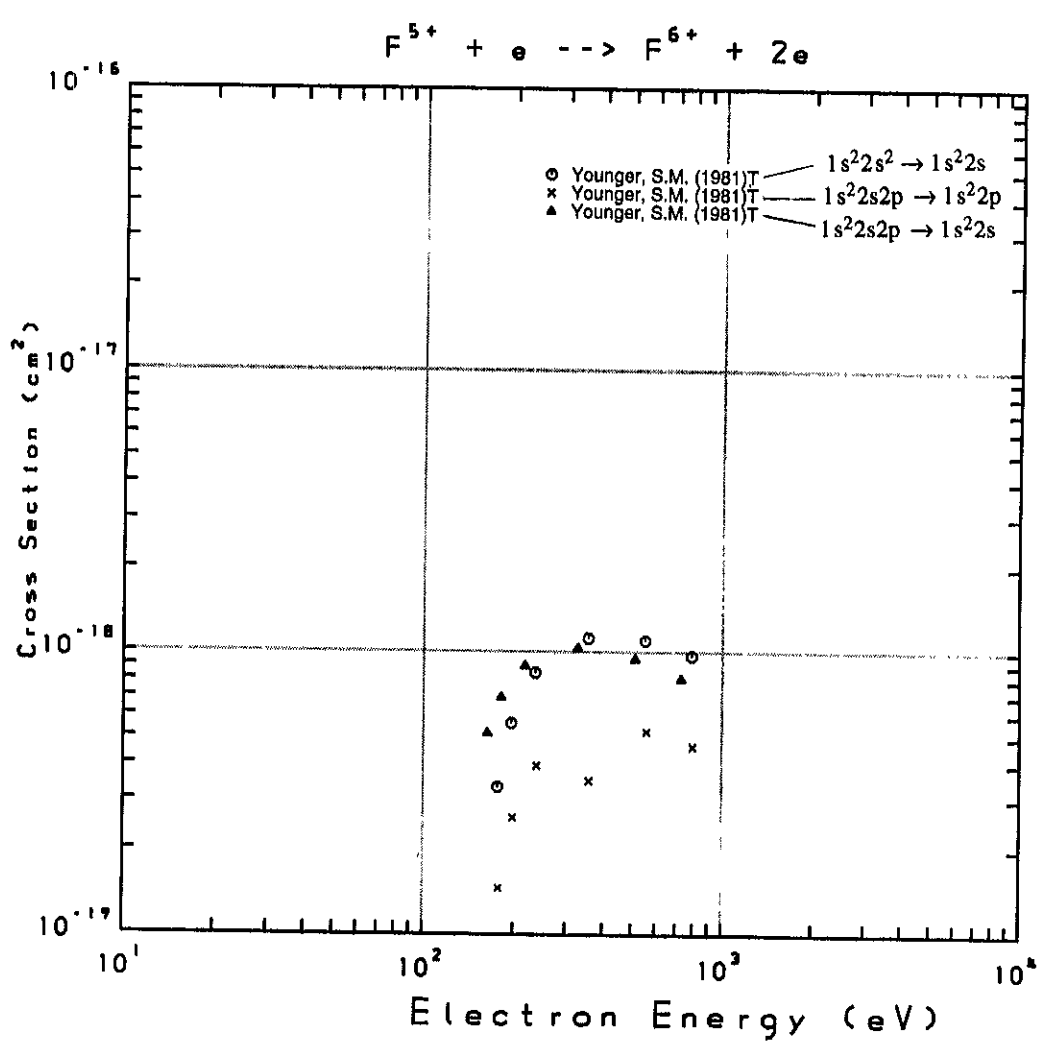

Fig. 54 $F^{5+} \rightarrow F^{6+}$

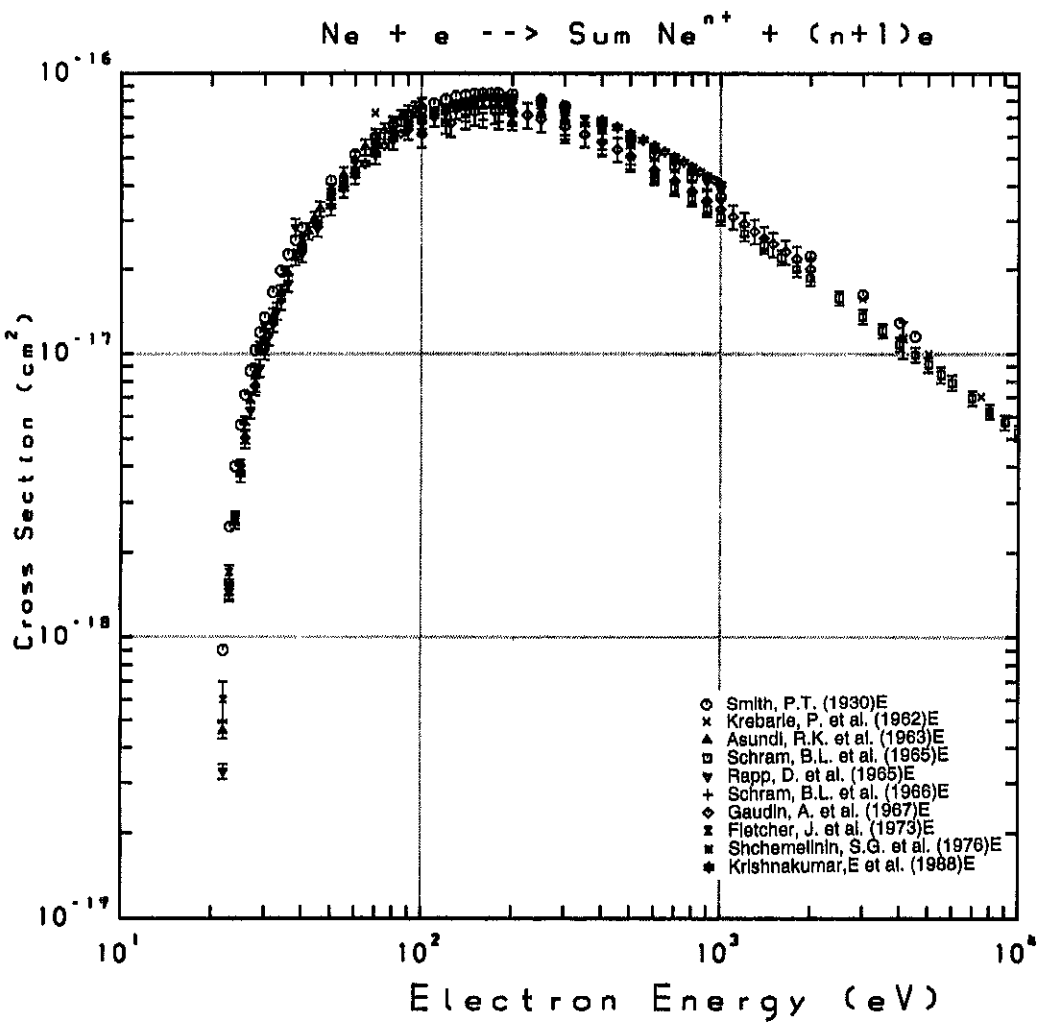

Fig. 55 Ne → ΣNe^{n+}

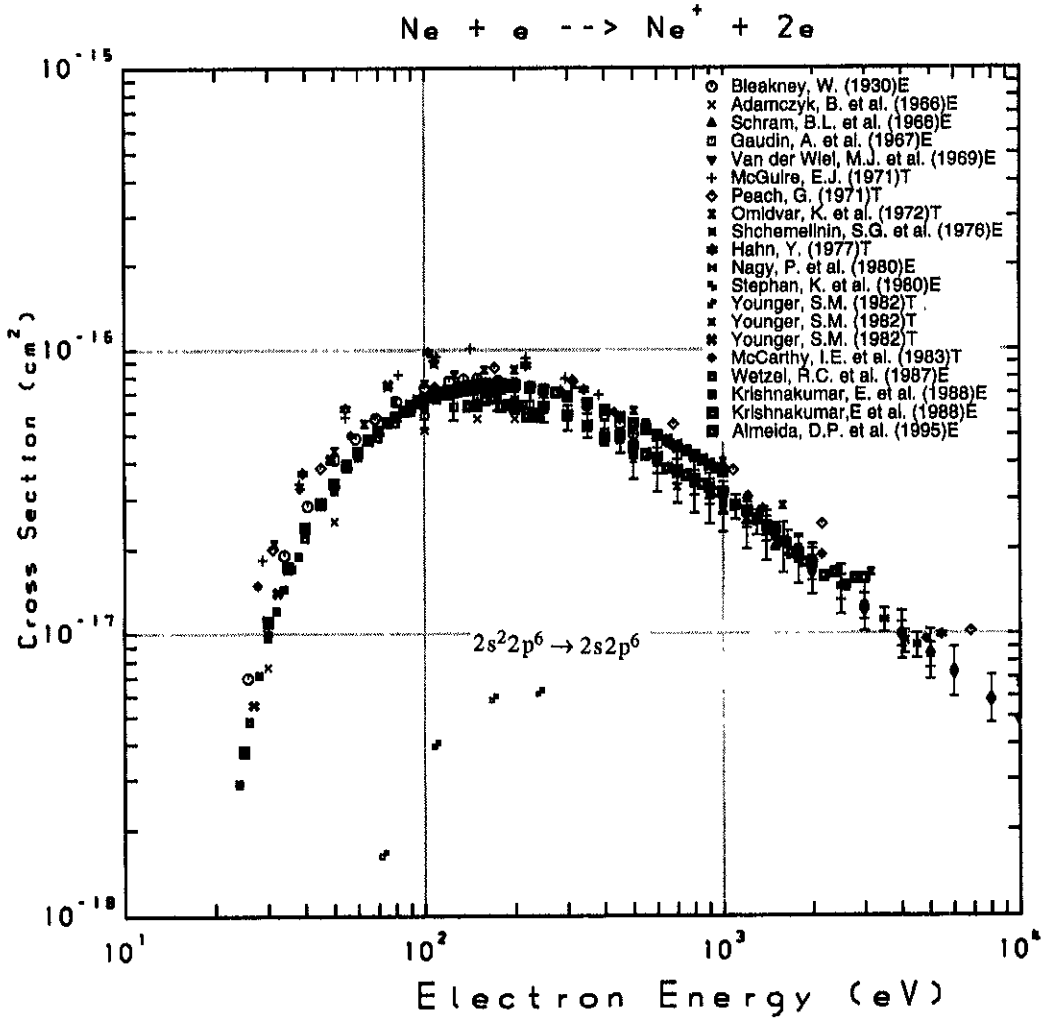

Fig. 56 Ne → Ne^+

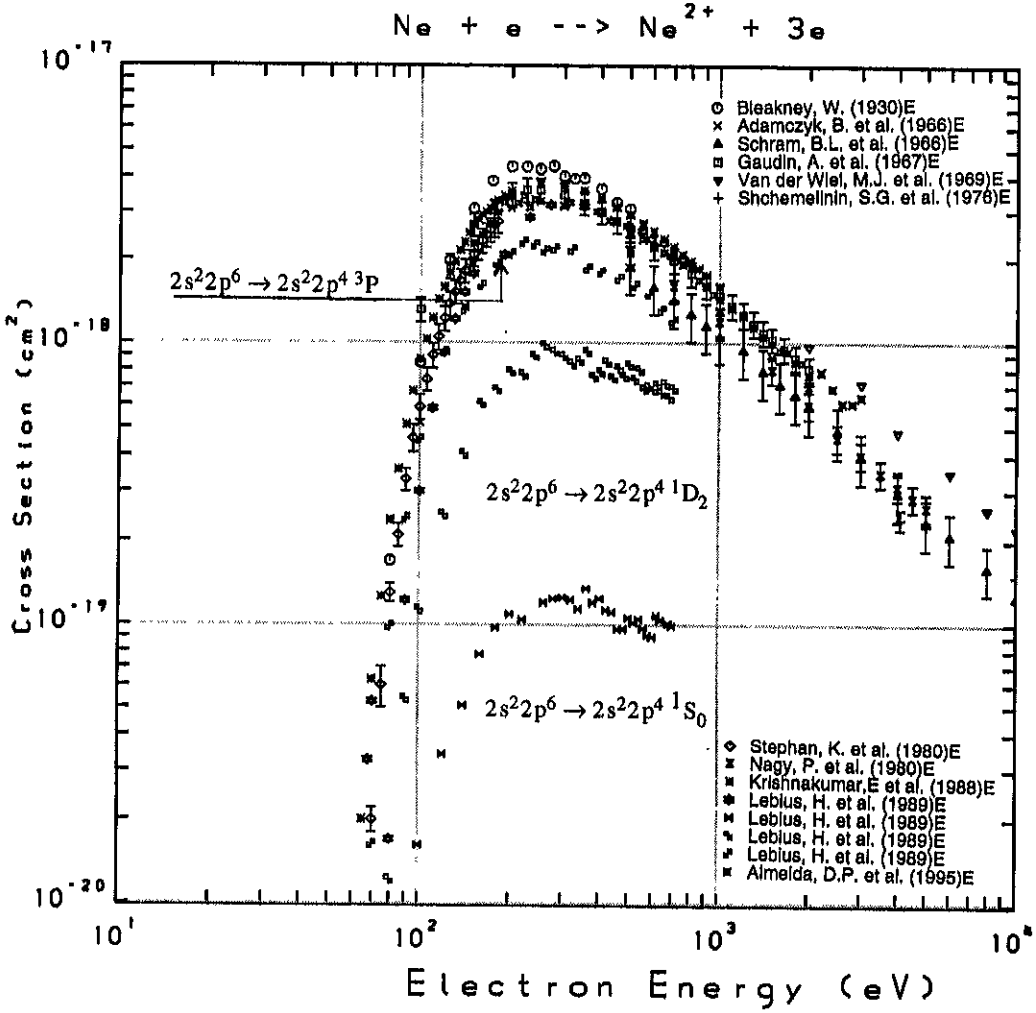

Fig. 57 Ne → Ne^{2+}

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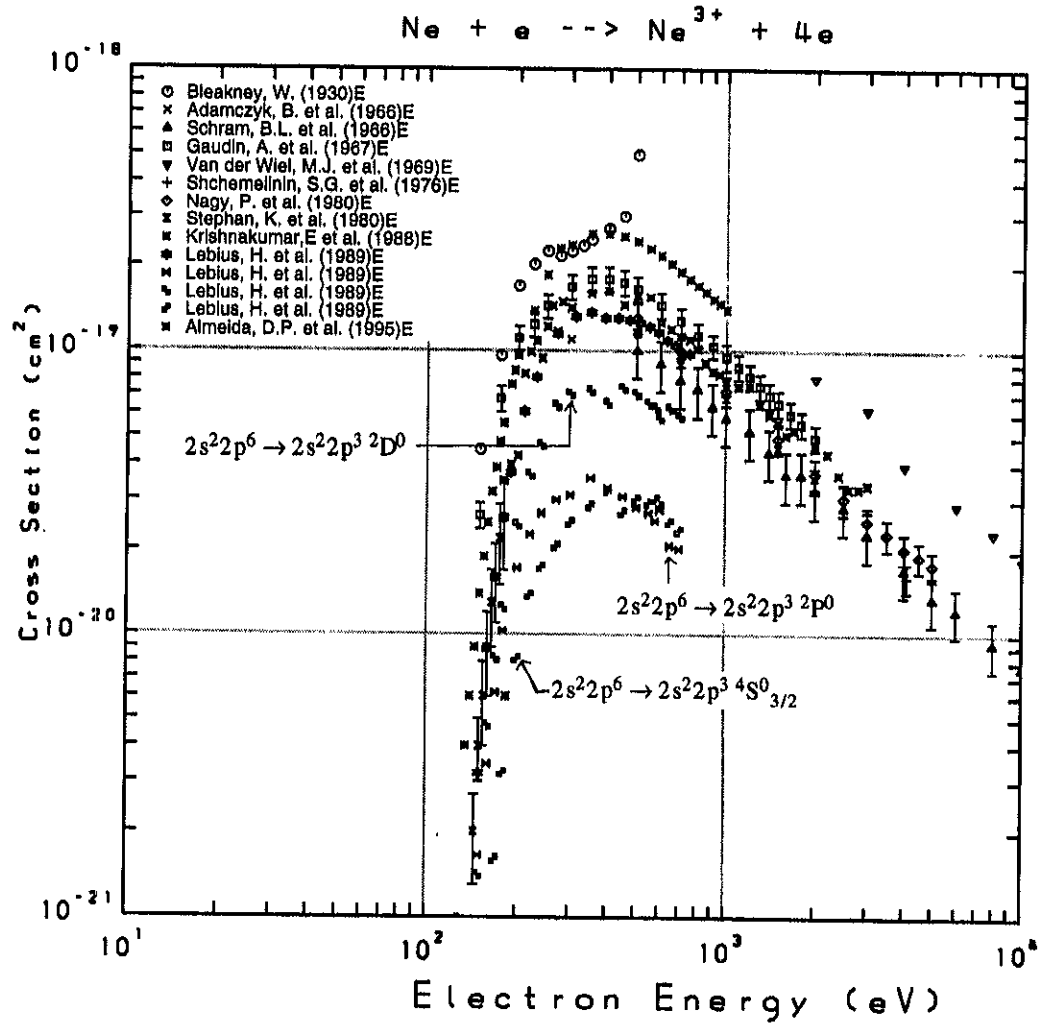

Fig. 58 Ne → Ne^{3+}

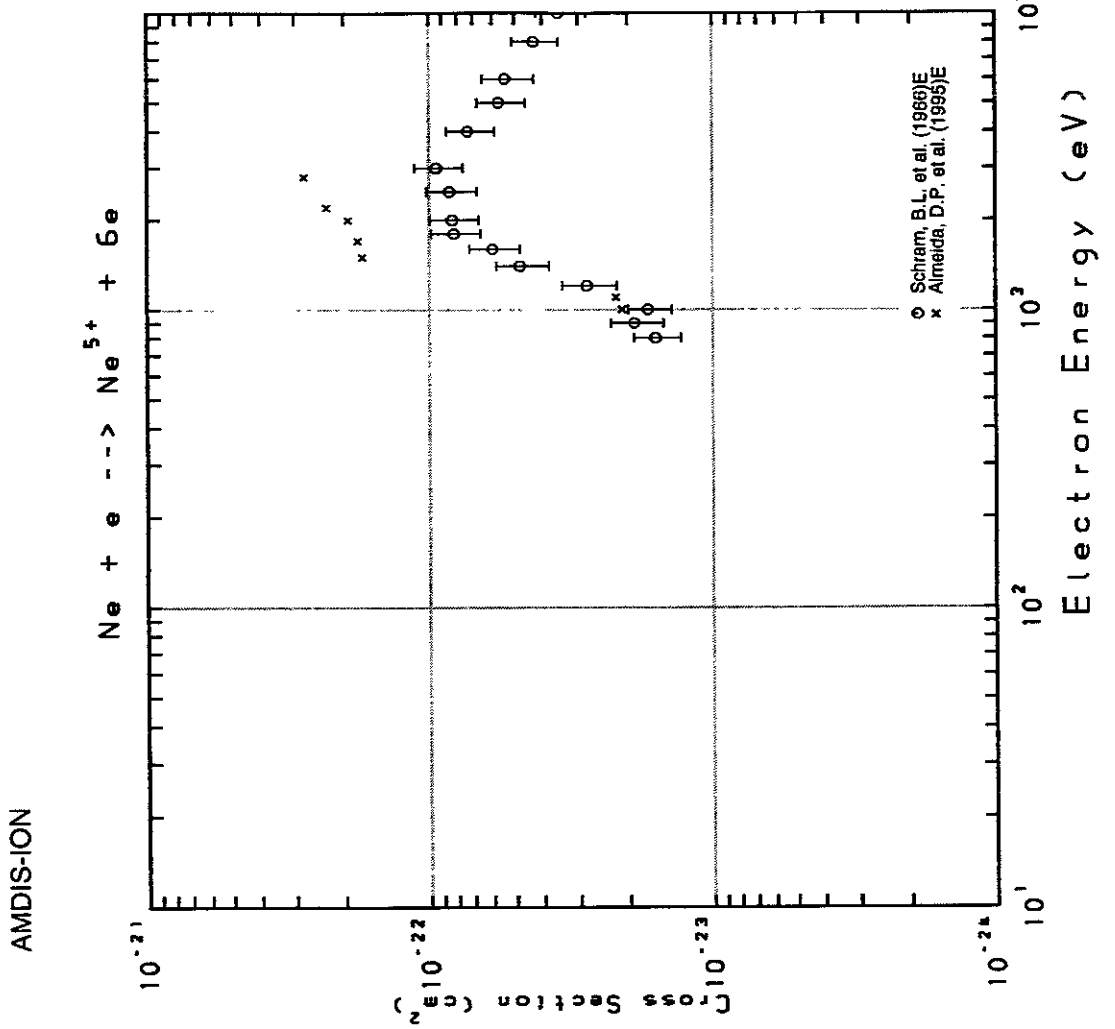

Fig. 60 Ne → Ne^{5+}

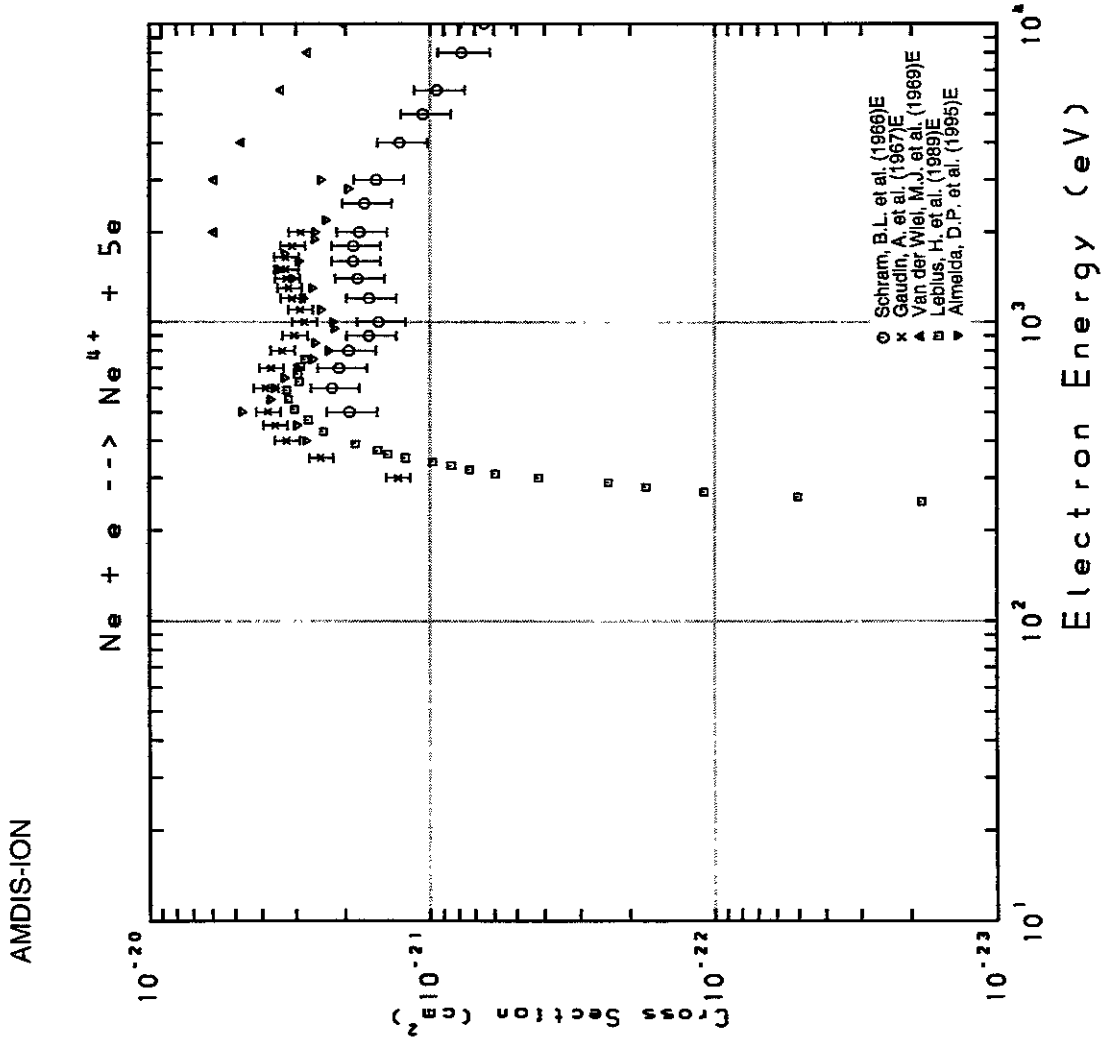

Fig. 59 Ne → Ne^{4+}

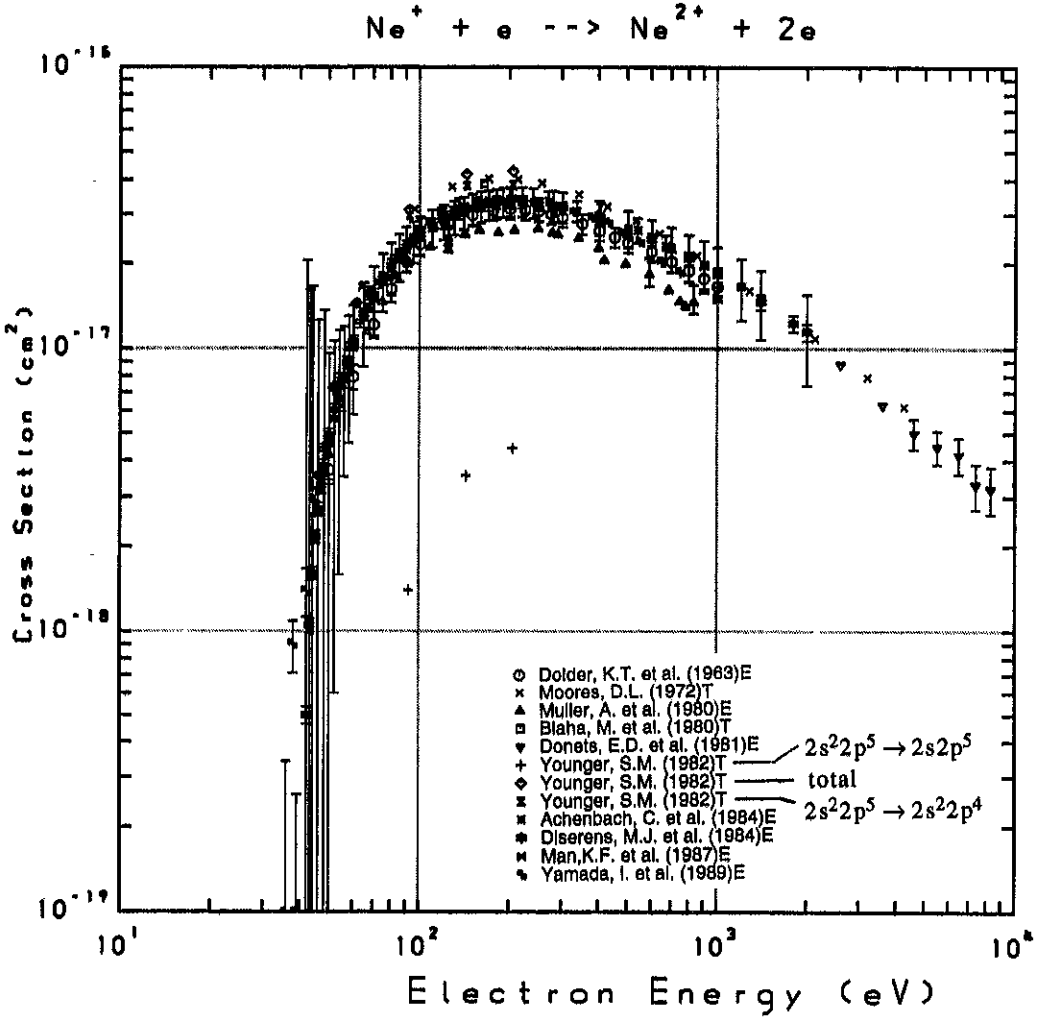

Fig. 61 $Ne^{+} \rightarrow Ne^{2+}$

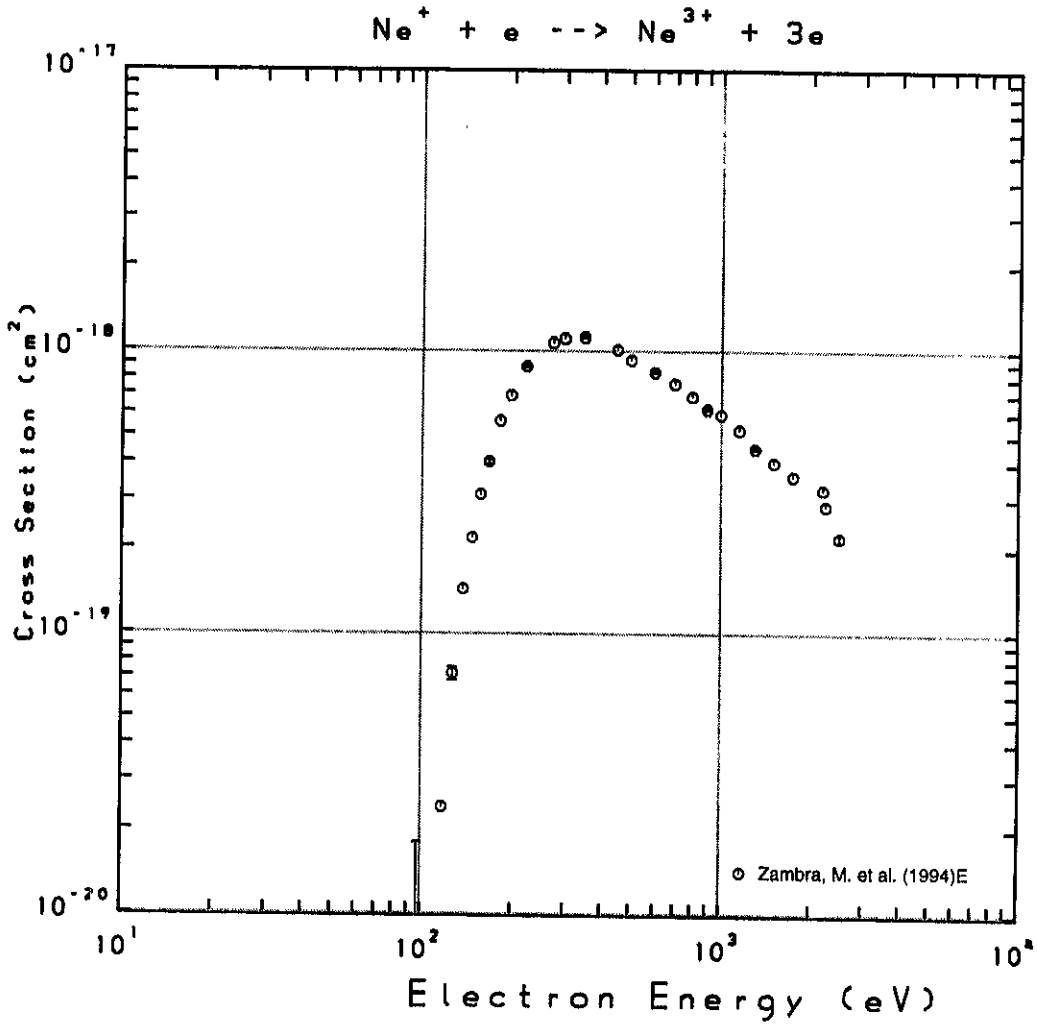

Fig. 62 $Ne^{+} \rightarrow Ne^{3+}$

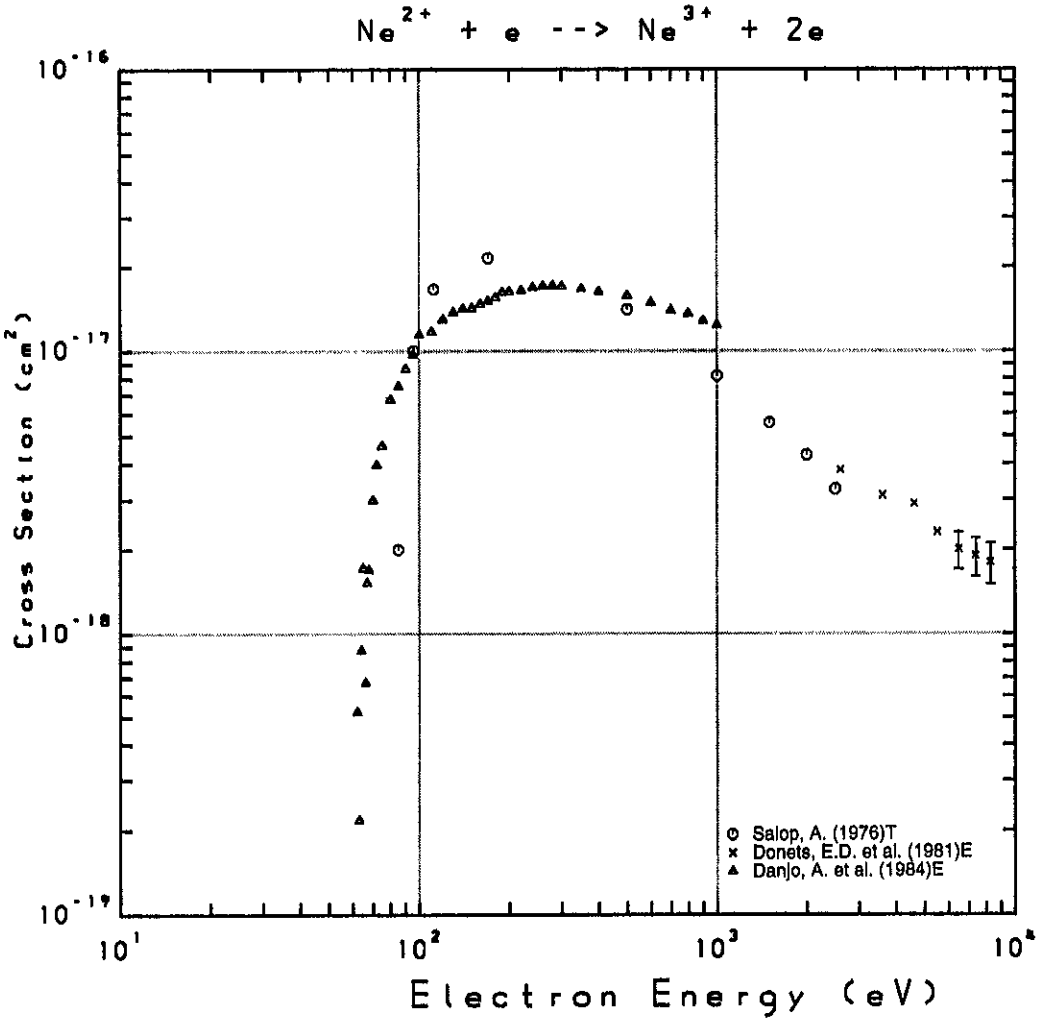

Fig. 63 $Ne^{2+} \rightarrow Ne^{3+}$

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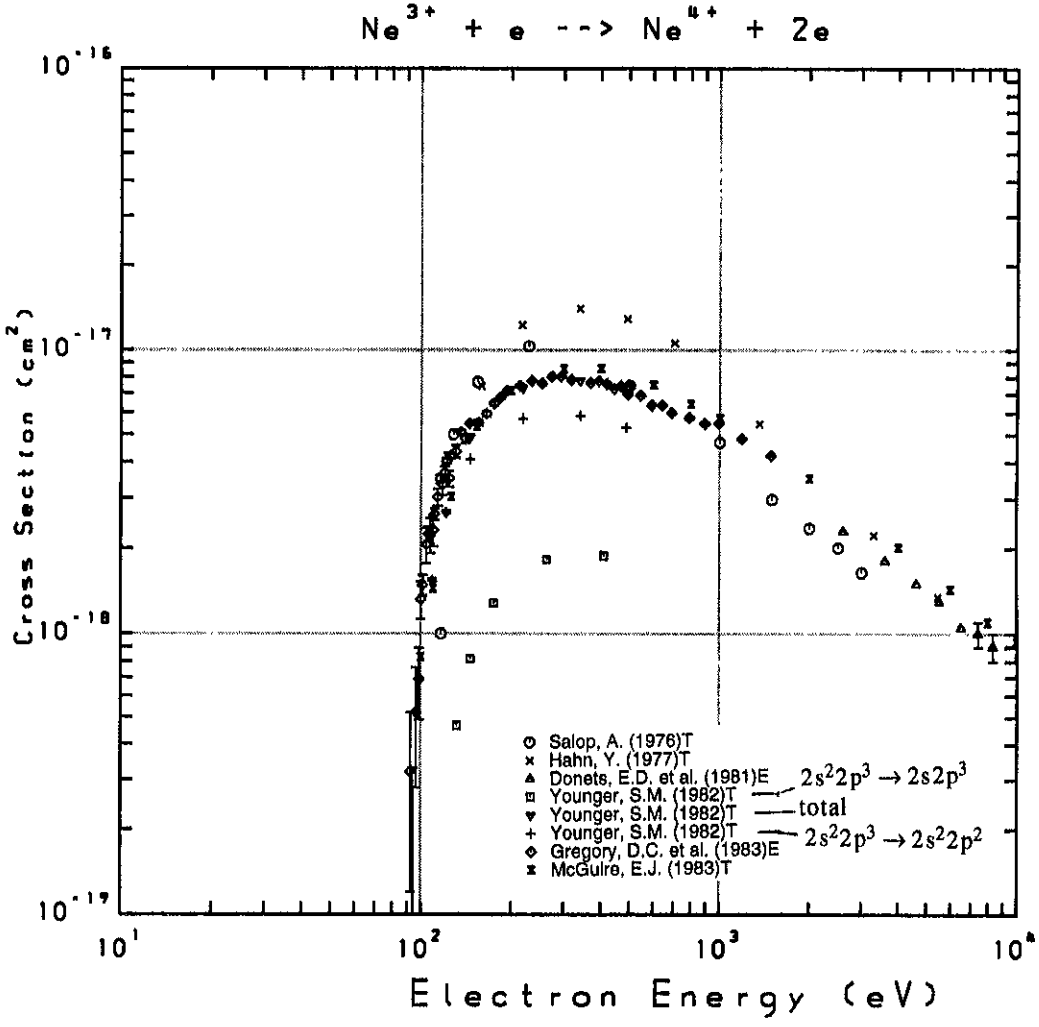

Fig. 64 $Ne^{3+} \rightarrow Ne^{4+}$

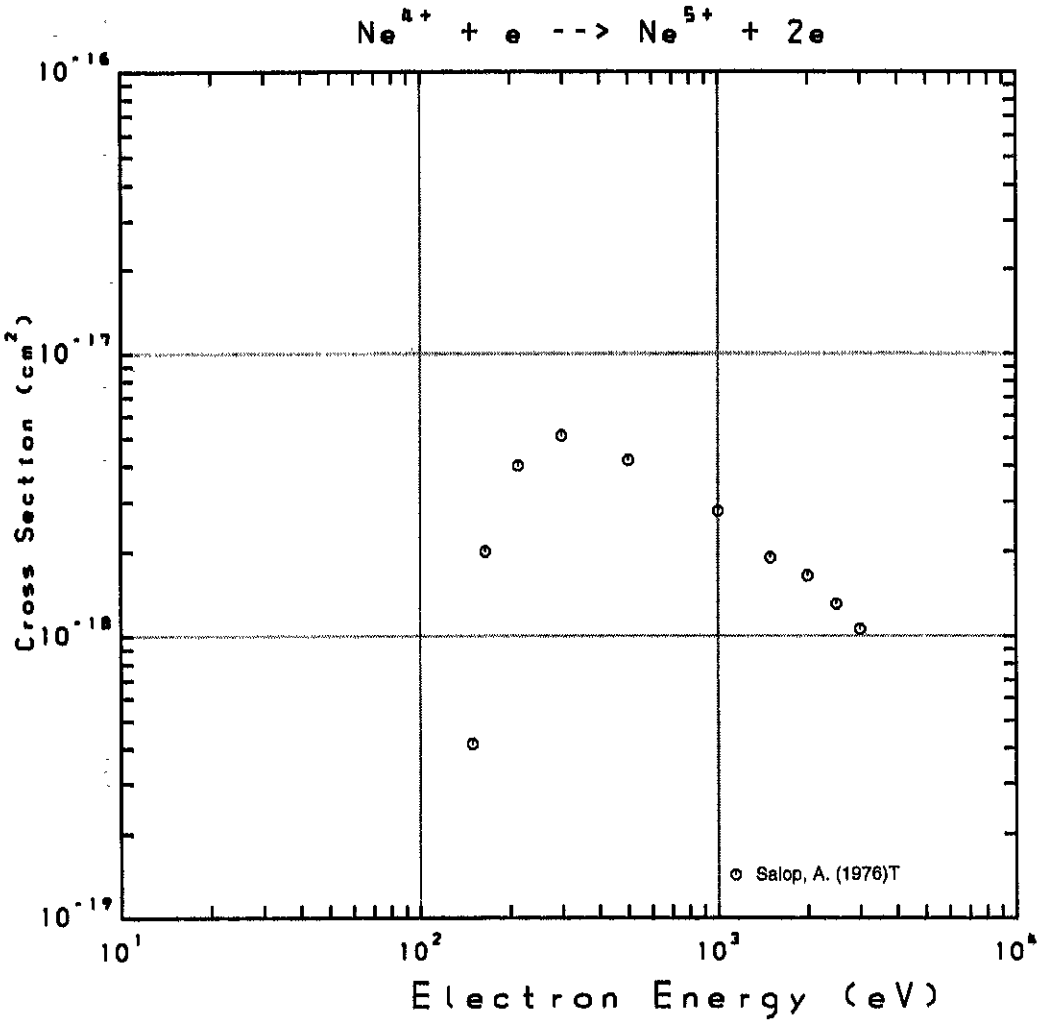

Fig. 65 $Ne^{4+} \rightarrow Ne^{5+}$

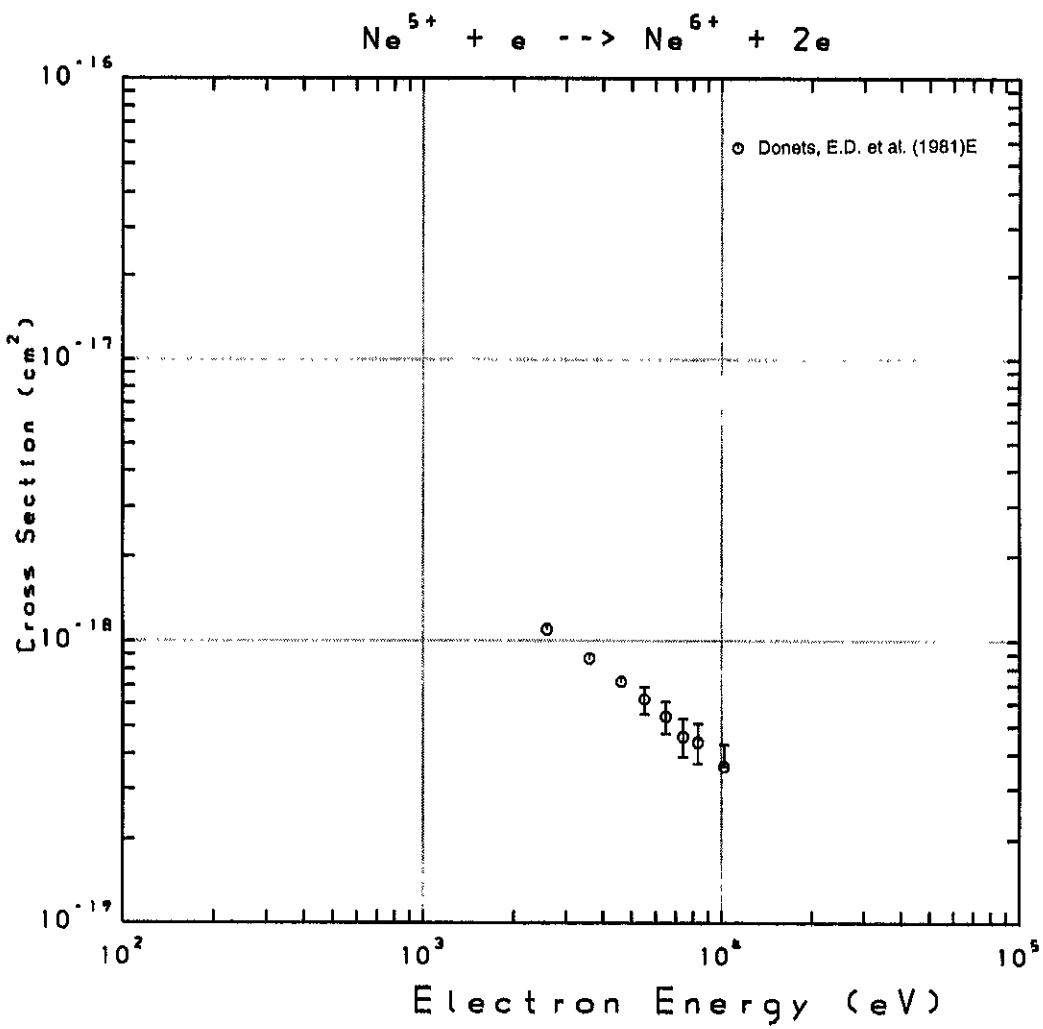

Fig. 66 $Ne^{5+} \rightarrow Ne^{6+}$

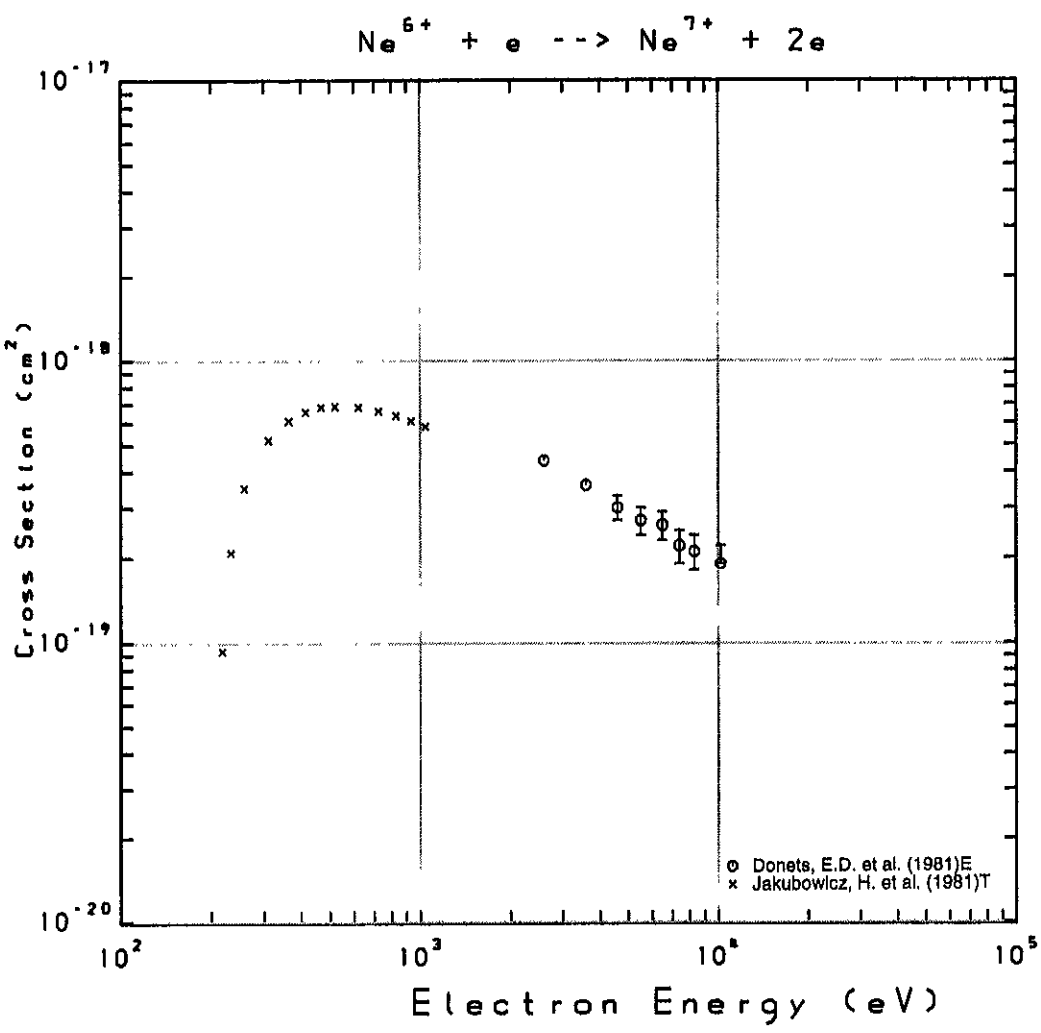

Fig. 67 $Ne^{6+} \rightarrow Ne^{7+}$

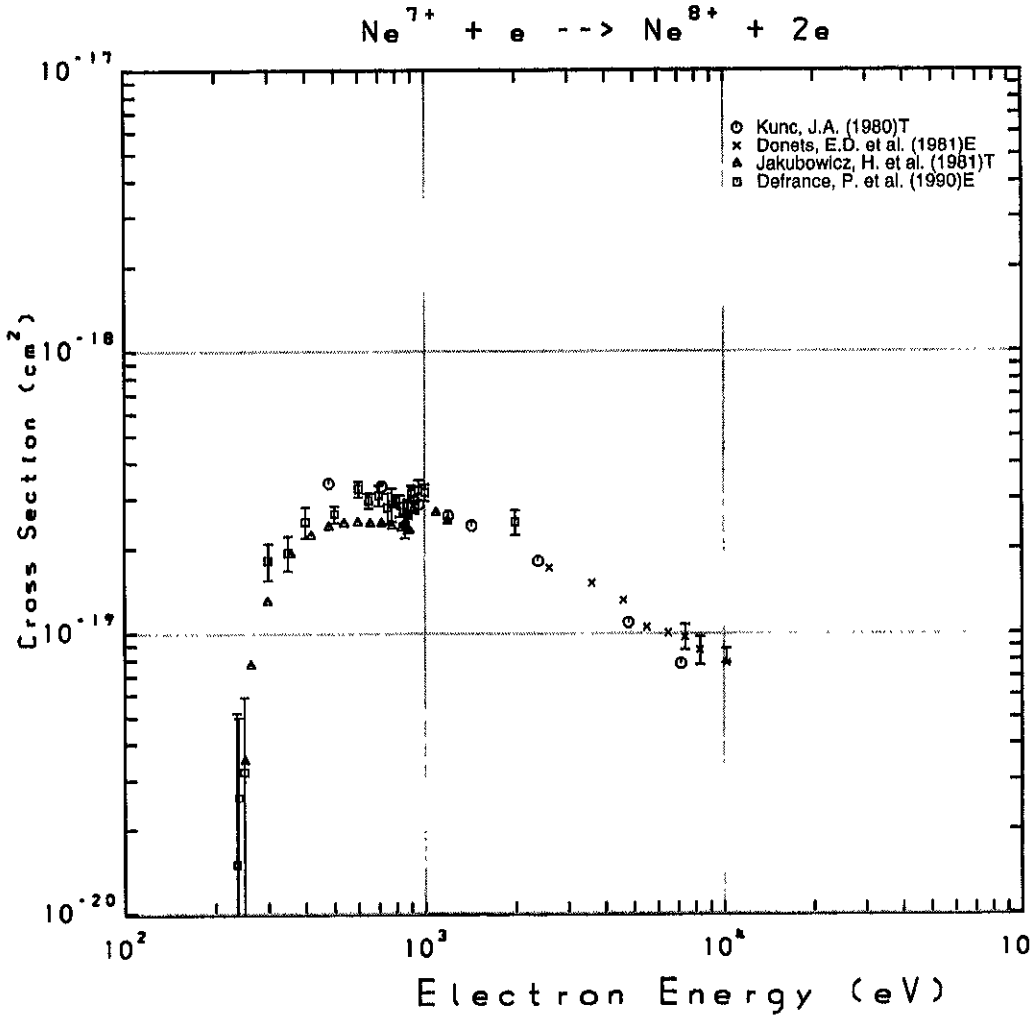

Fig. 68 $Ne^{7+} \rightarrow Ne^{8+}$

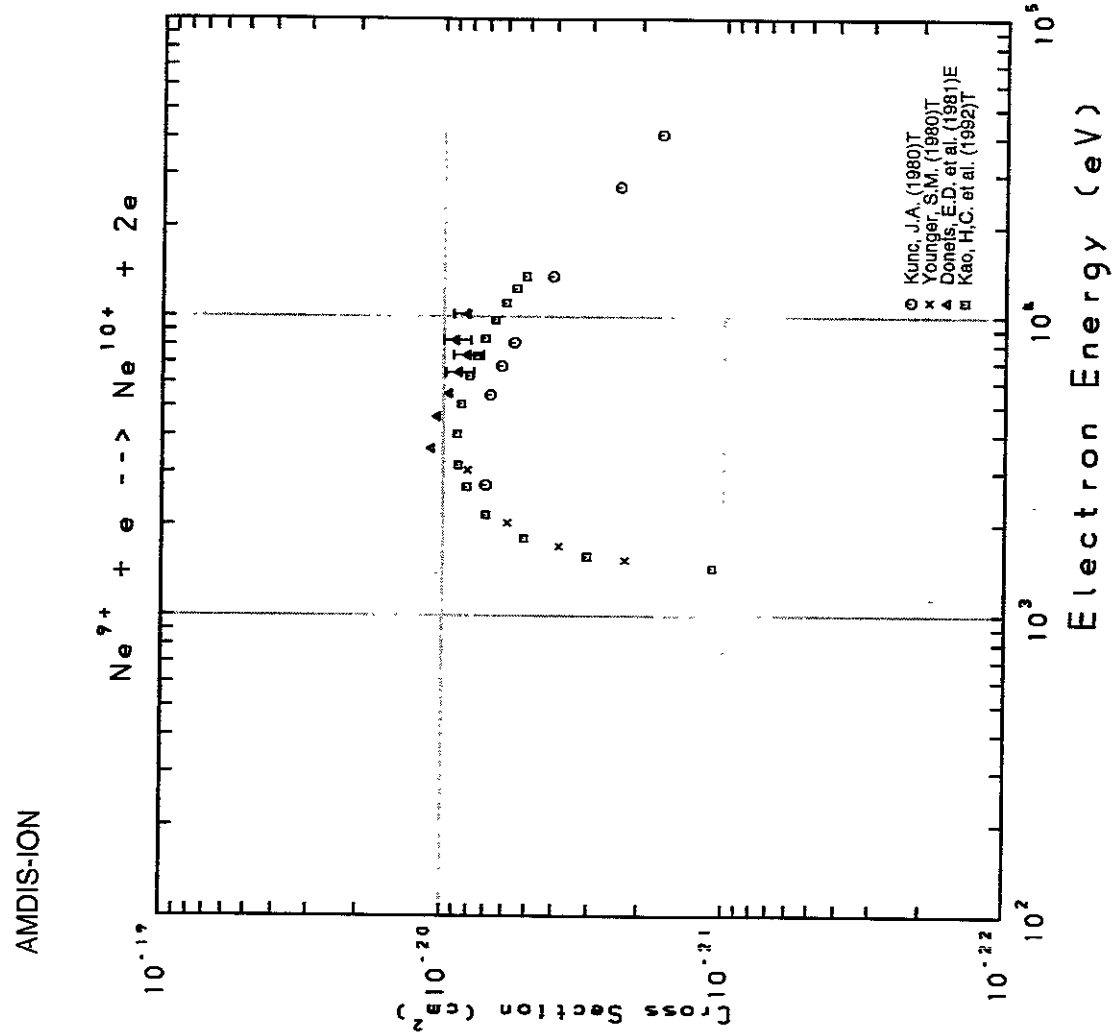

Fig. 70 $Ne^{9+} \rightarrow Ne^{10+}$

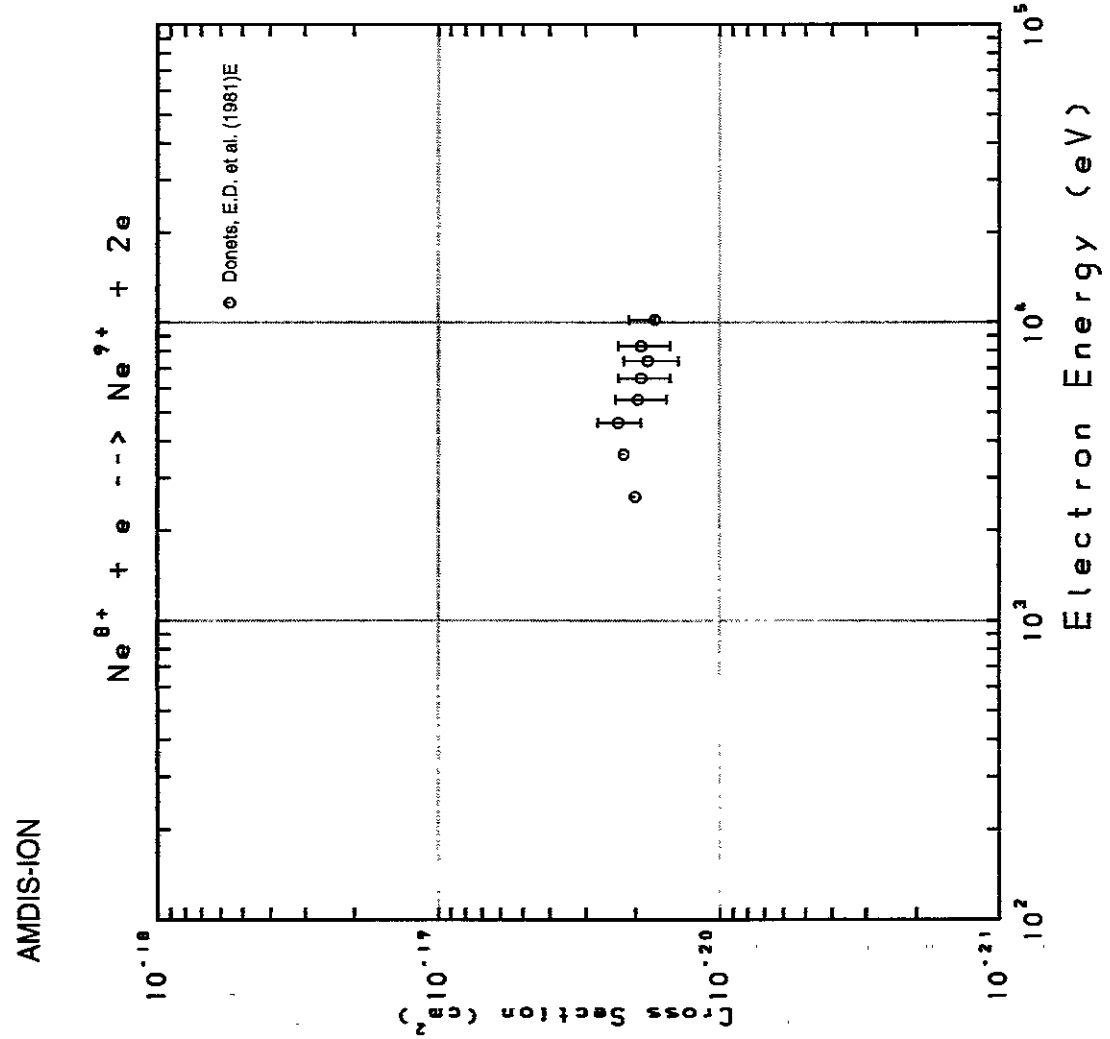

Fig. 69 $Ne^{8+} \rightarrow Ne^{9+}$

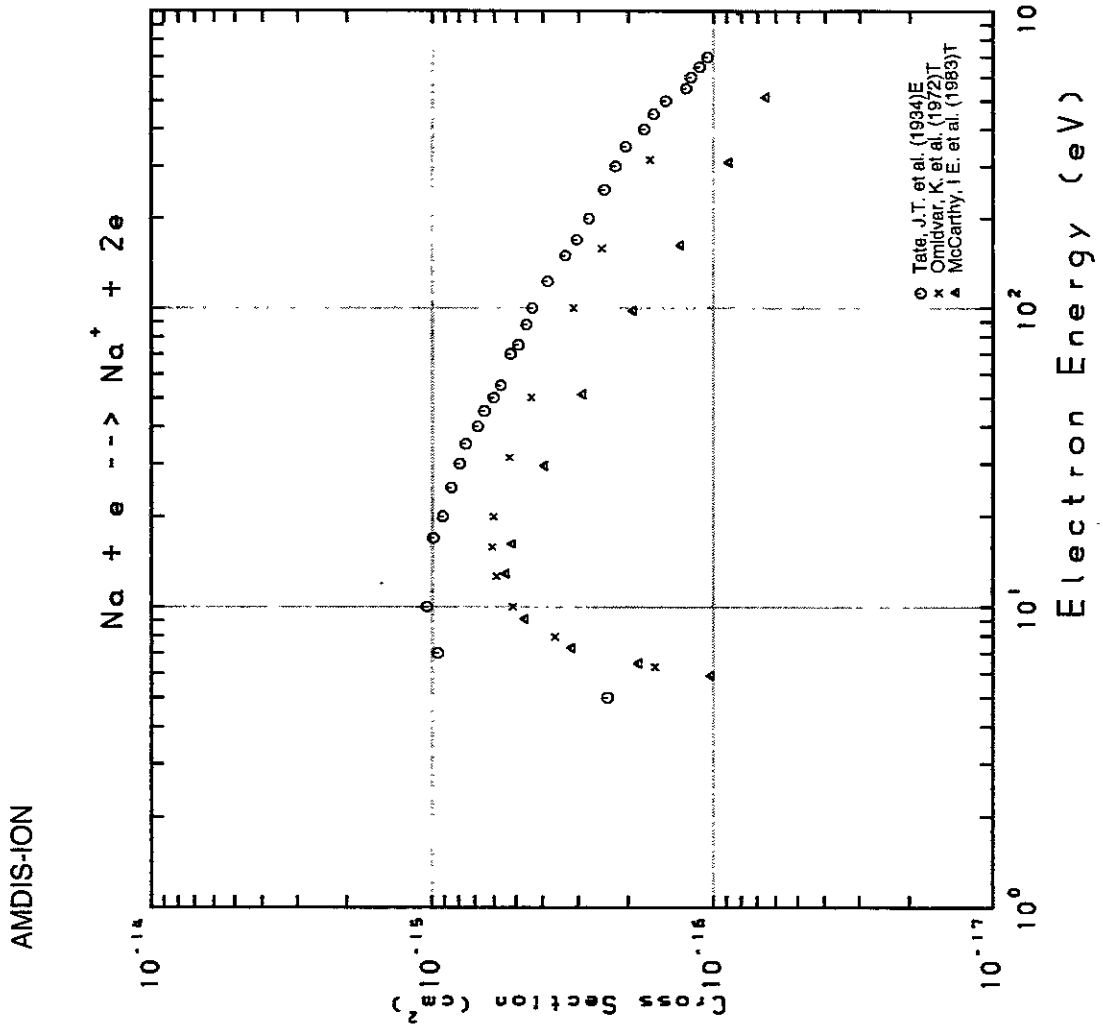

Fig. 72 Na → Na^+

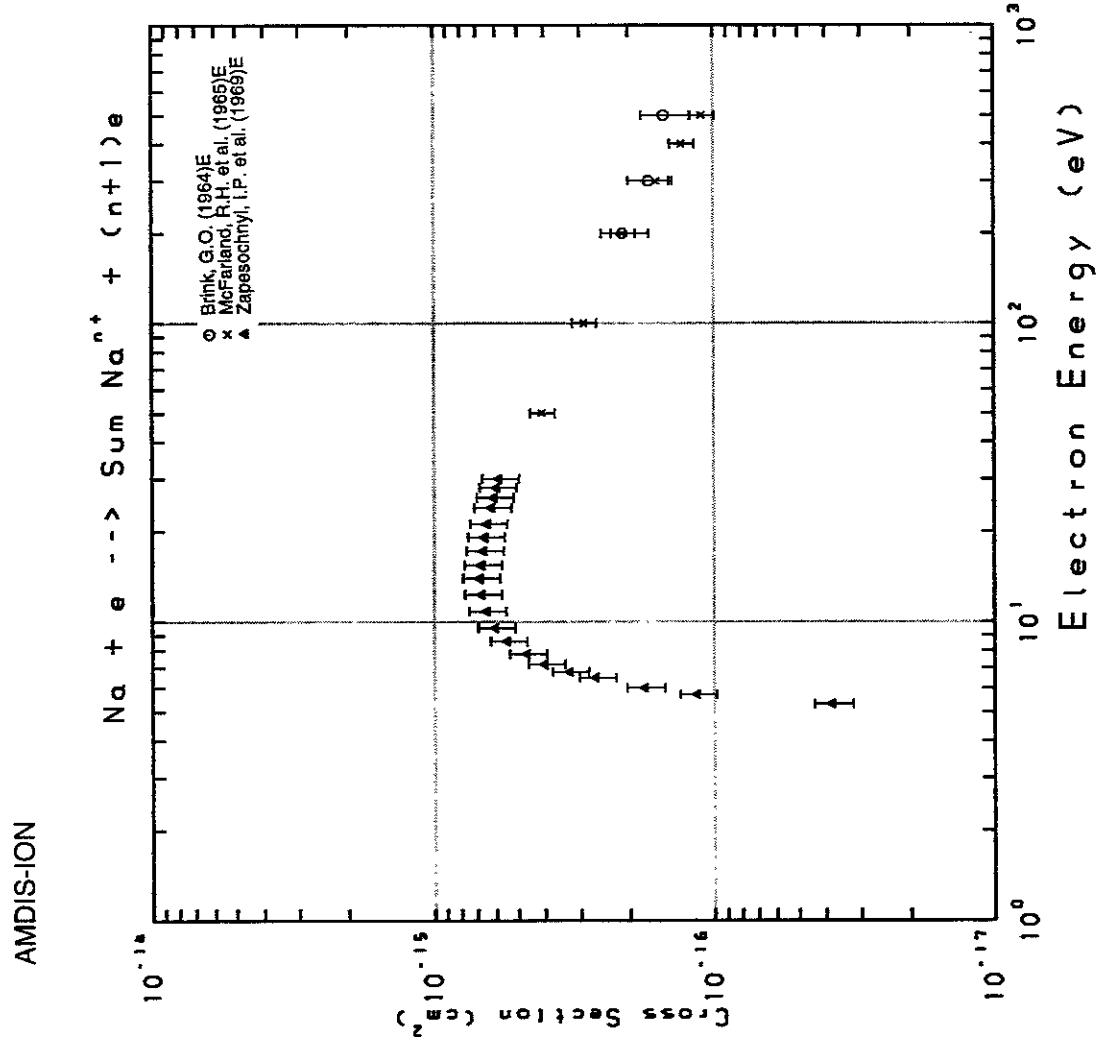

Fig. 71 Na → ΣNa^{n+}

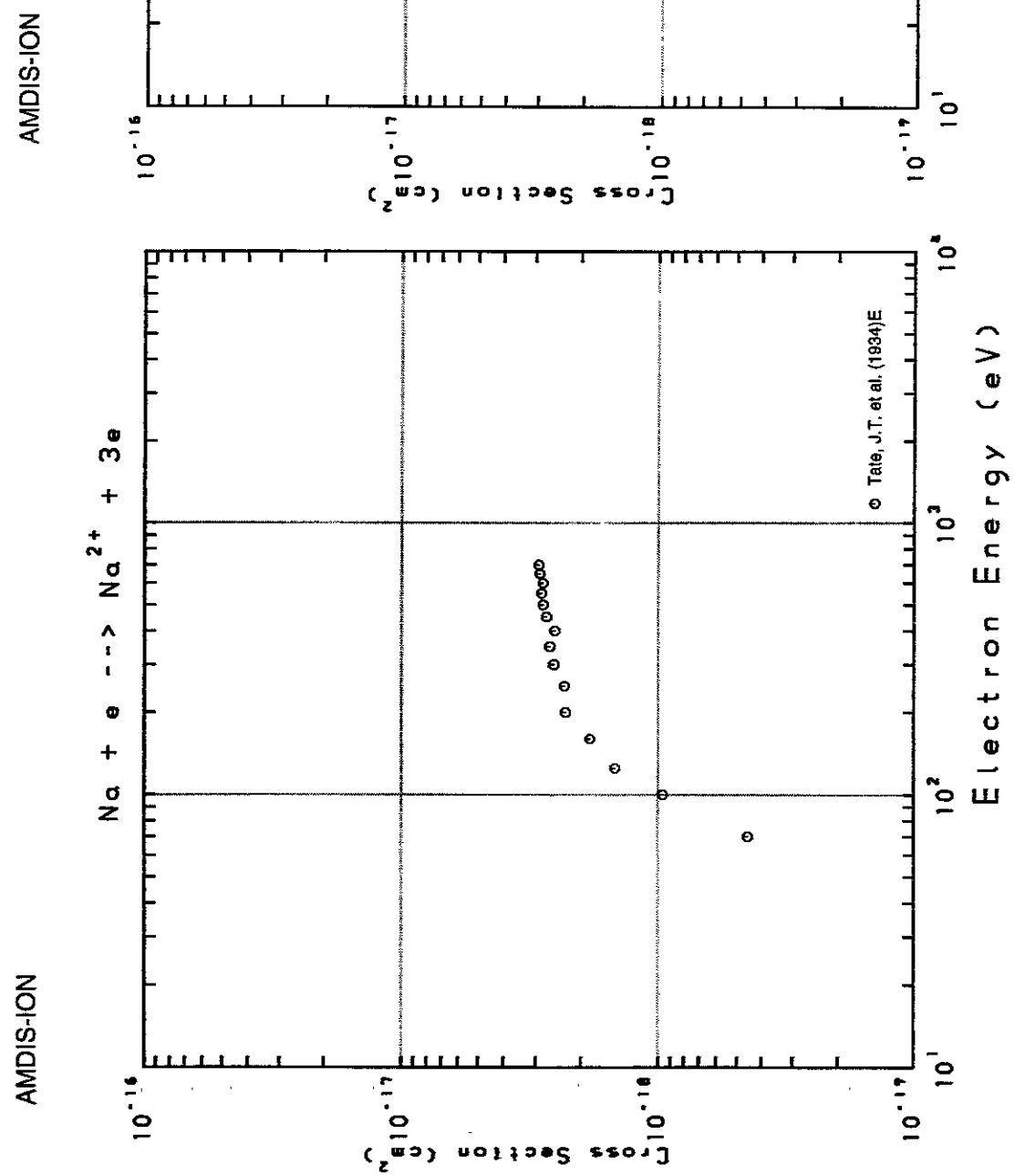

Fig. 73 $Na \rightarrow Na^{2+}$

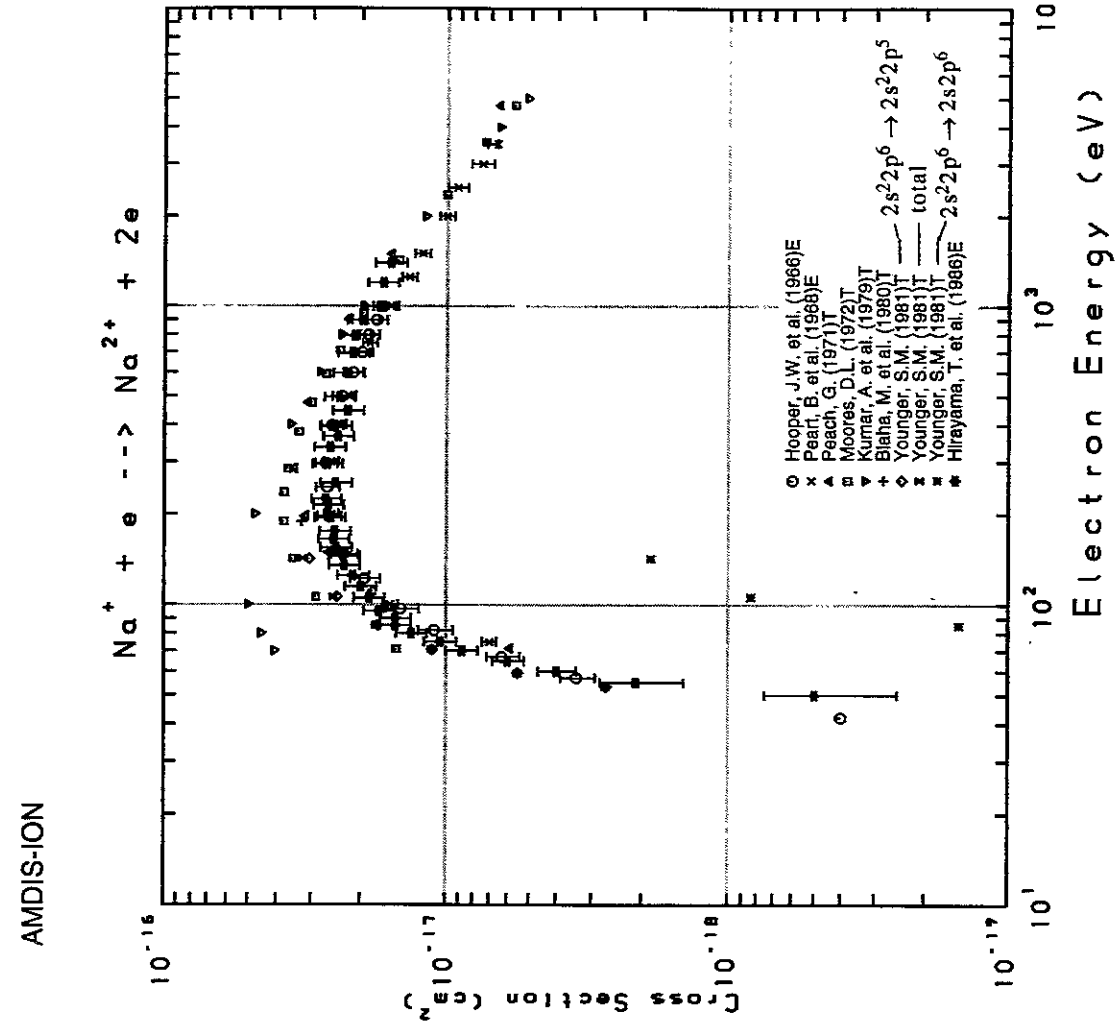

Fig. 74 $Na^{+} \rightarrow Na^{2+}$

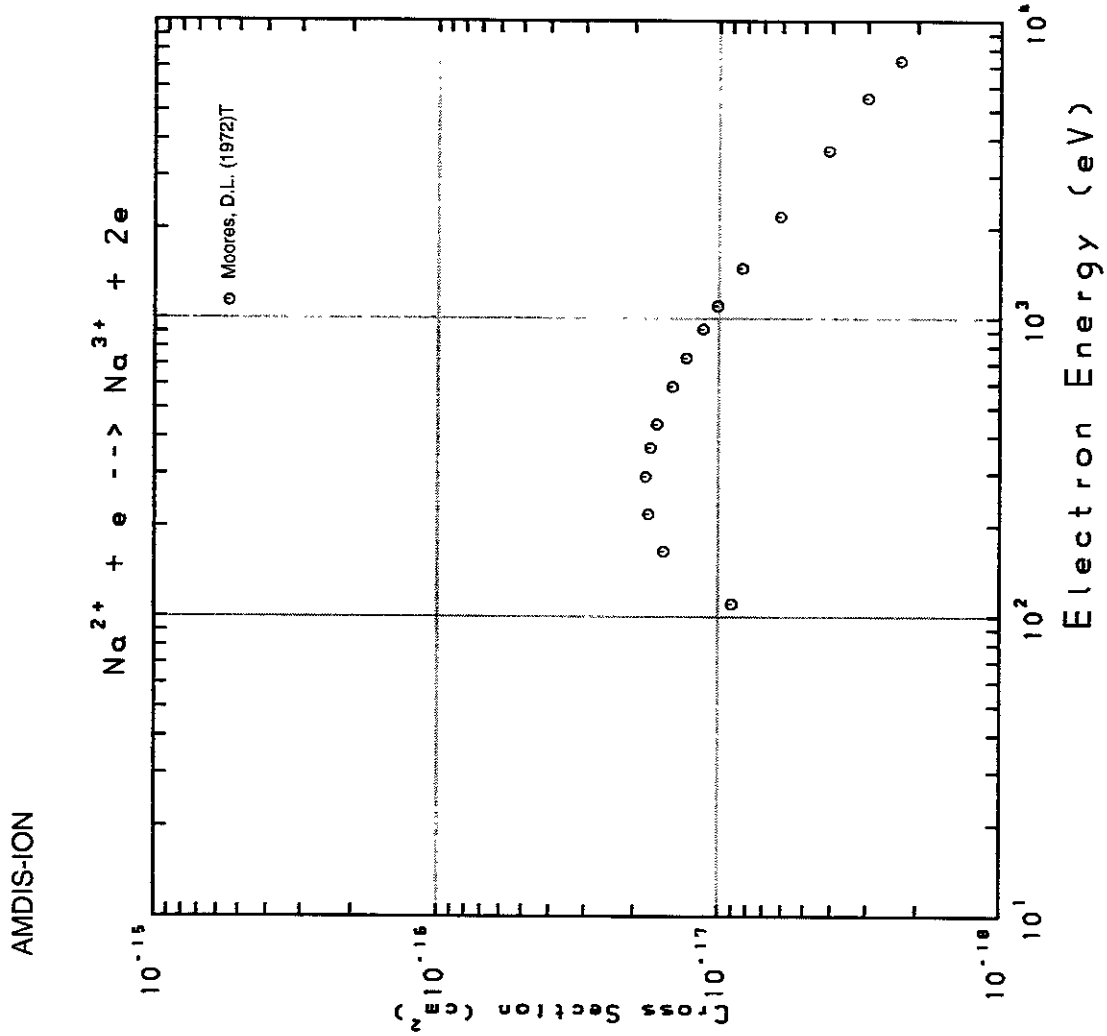

Fig. 76 $Na^{2+} \rightarrow Na^{3+}$

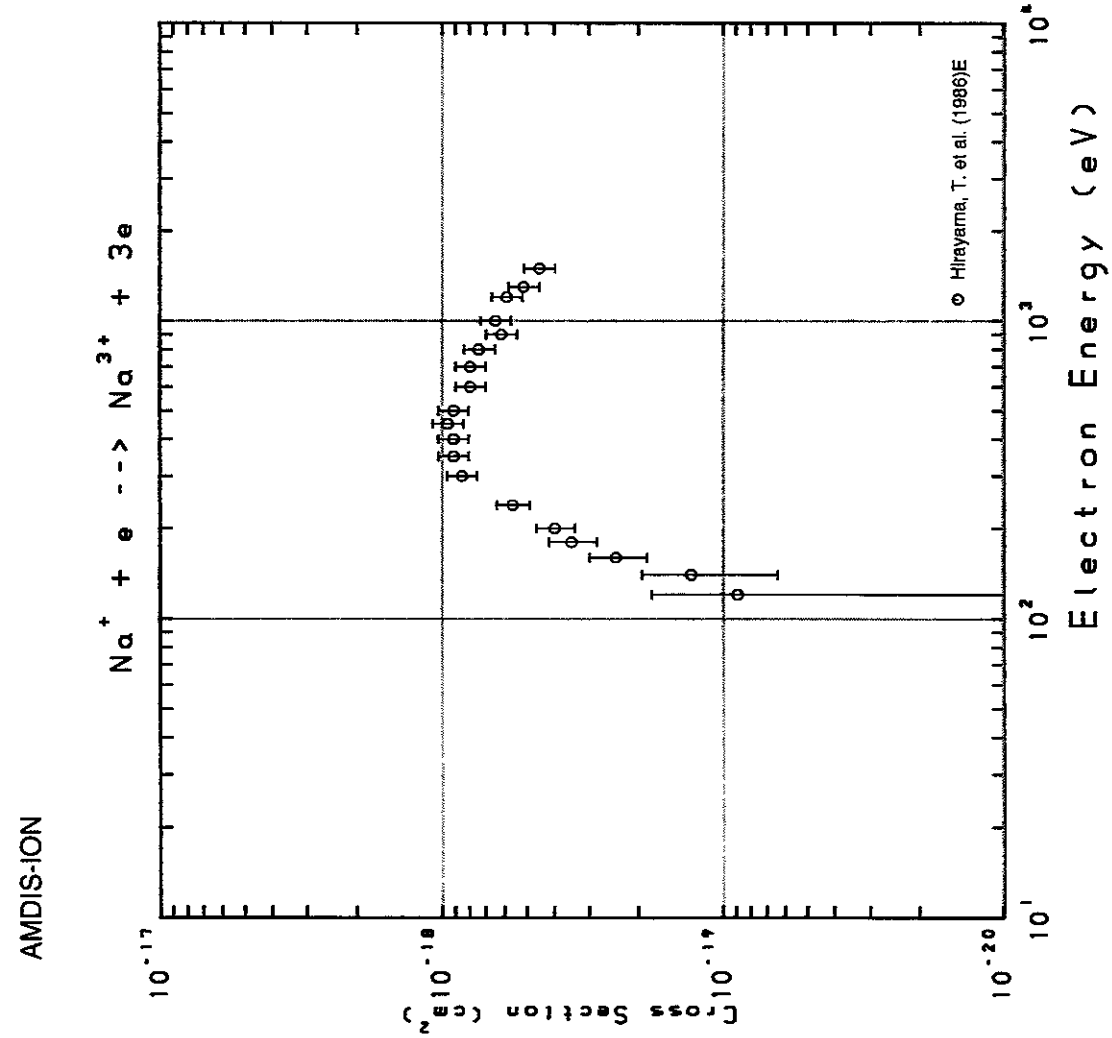

Fig. 75 $Na^{+} \rightarrow Na^{3+}$

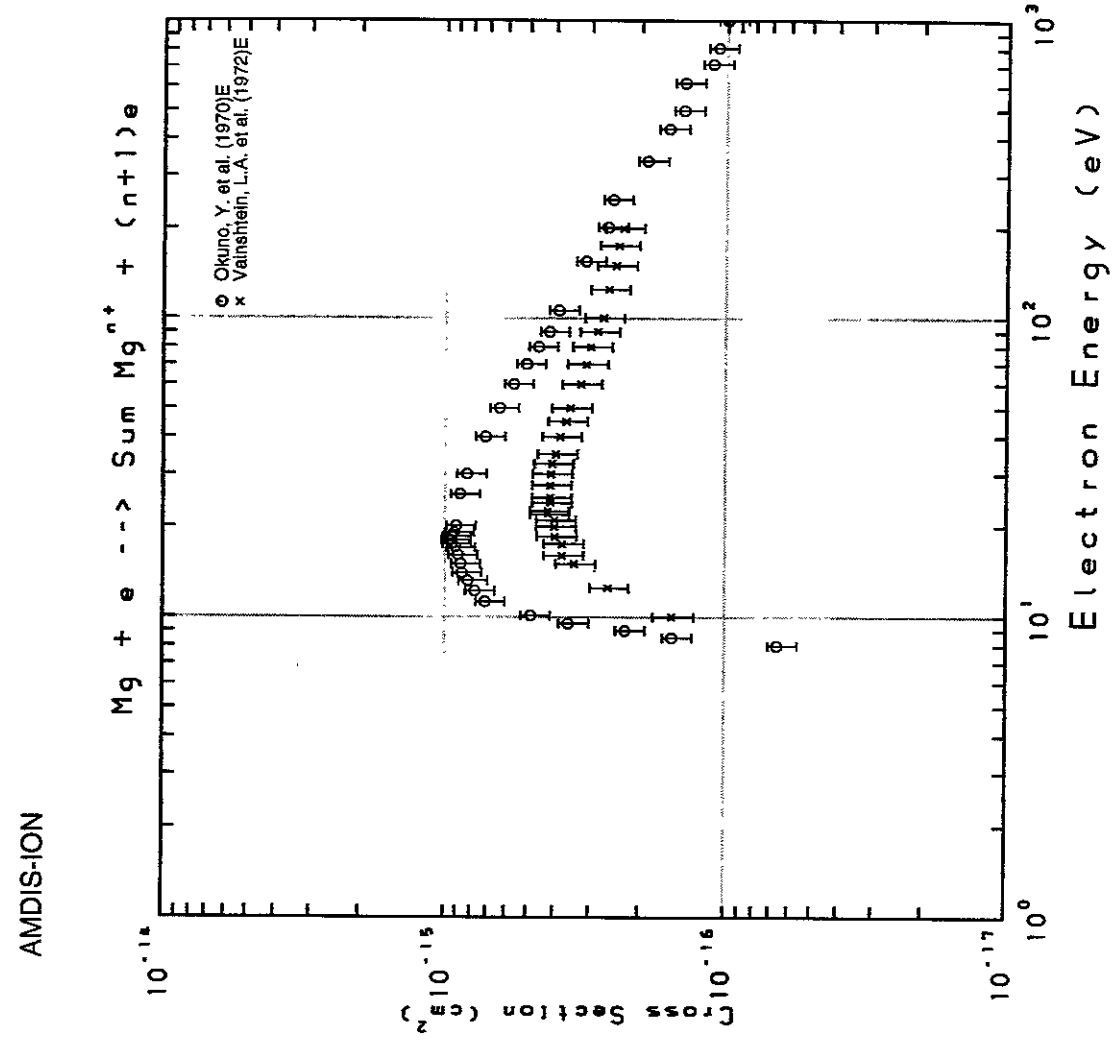

Fig. 78 $Mg \rightarrow \Sigma Mg^{n+}$

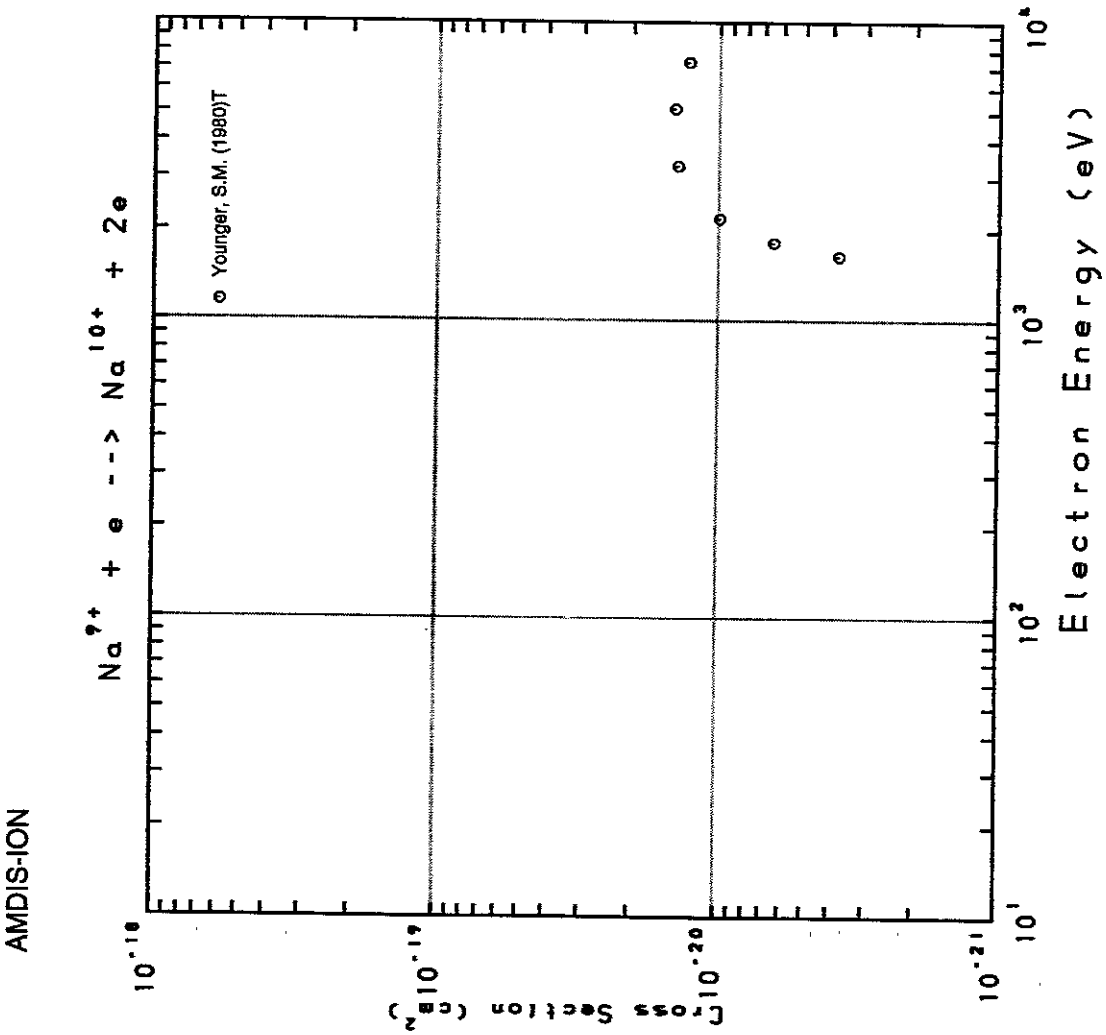

Fig. 77 $Na^{9+} \rightarrow Na^{10+}$

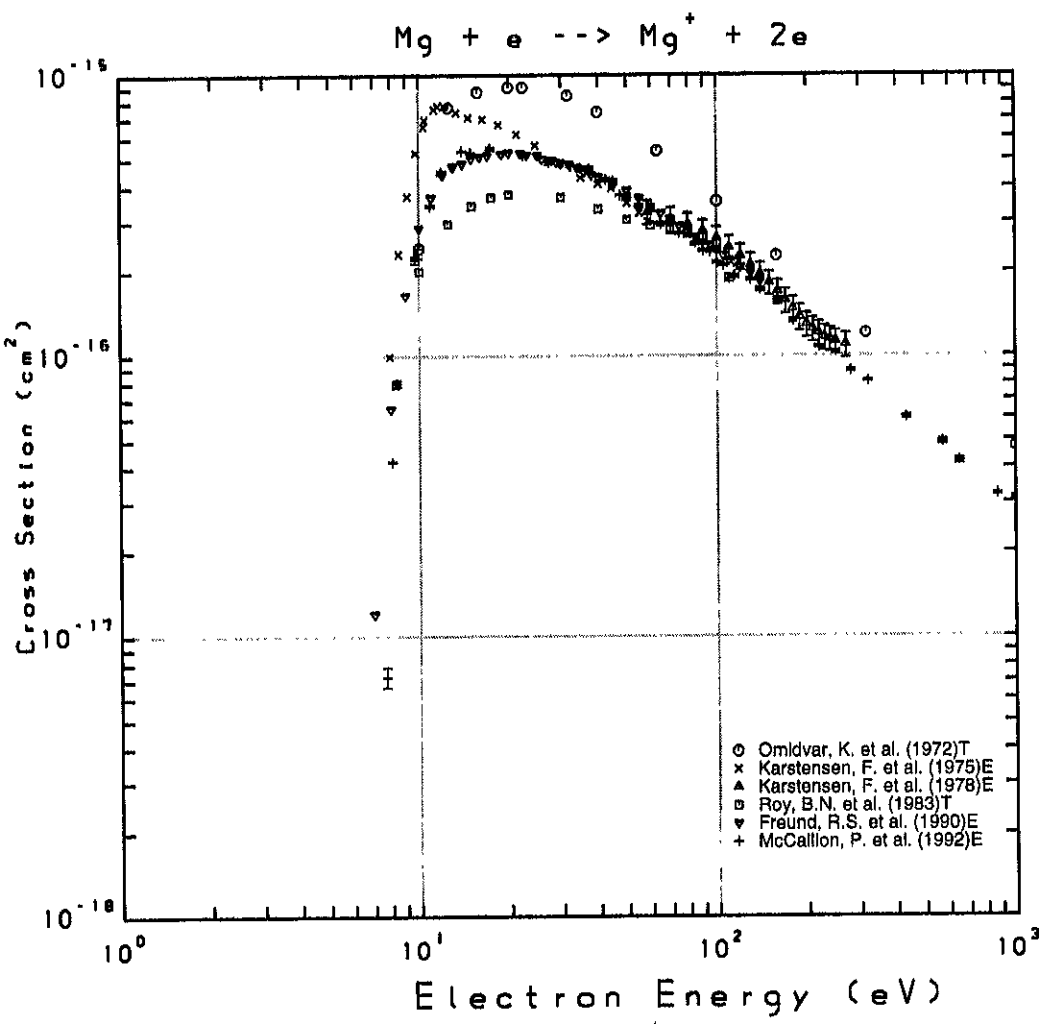

Fig. 79 Mg → Mg^{+}

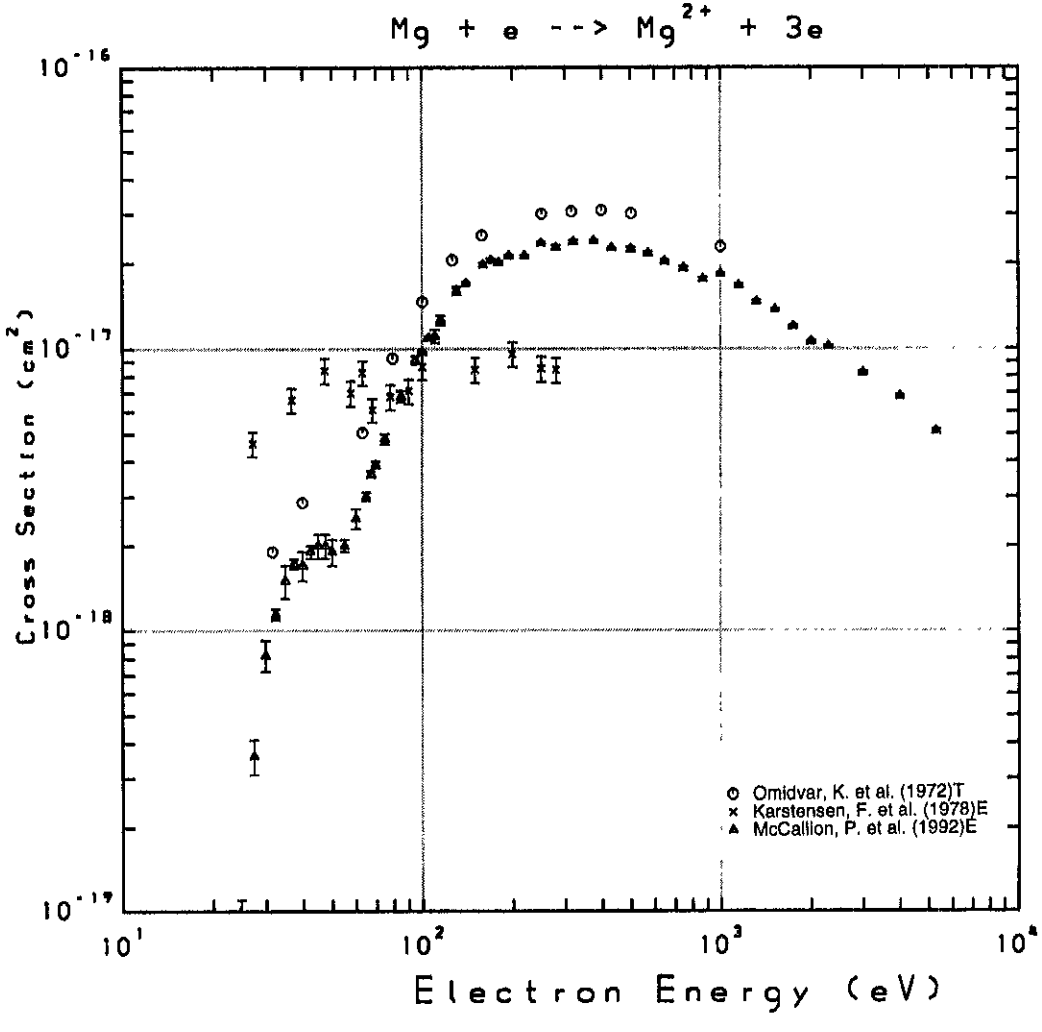

Fig. 80 Mg → Mg^{2+}

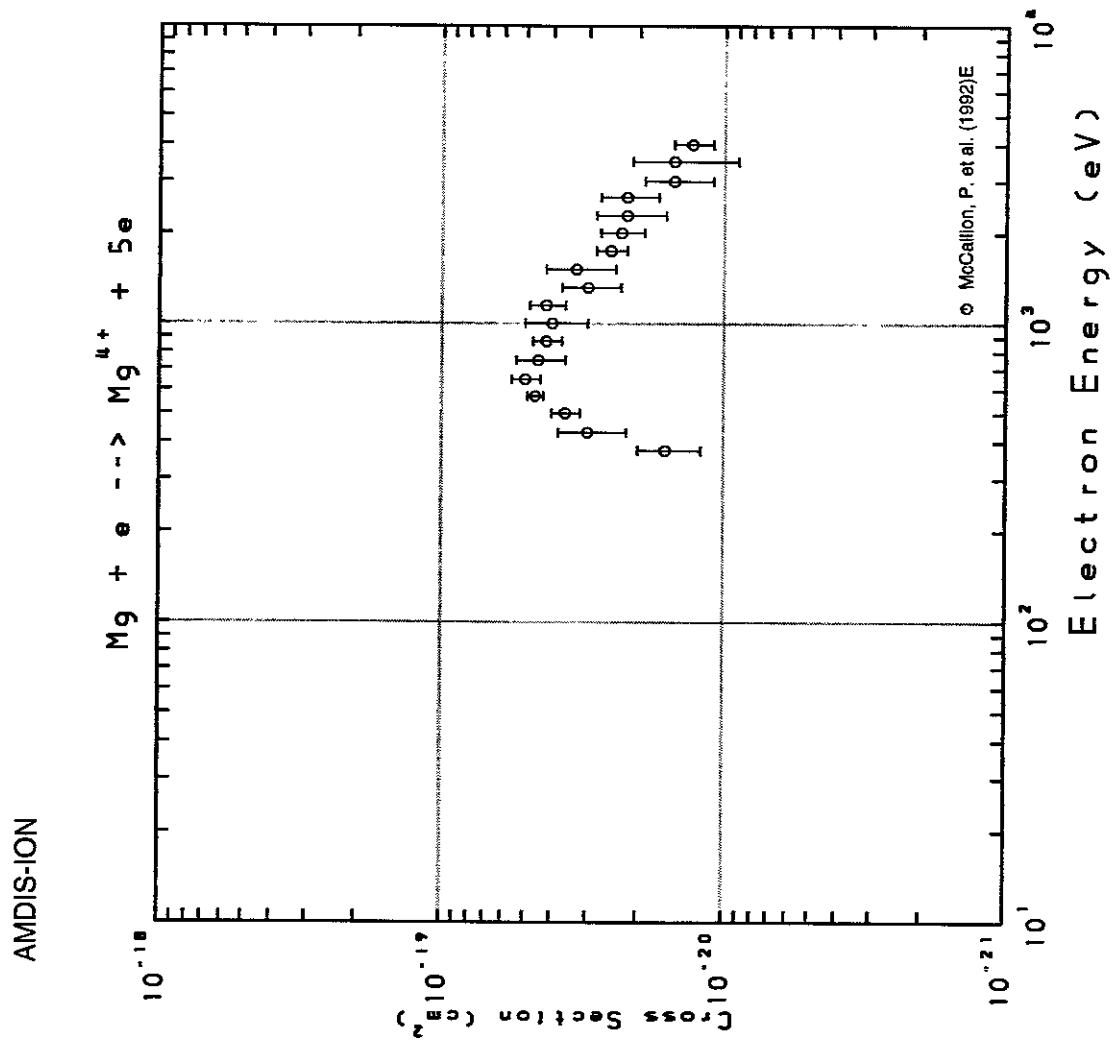

Fig. 82 Mg → Mg^{4+}

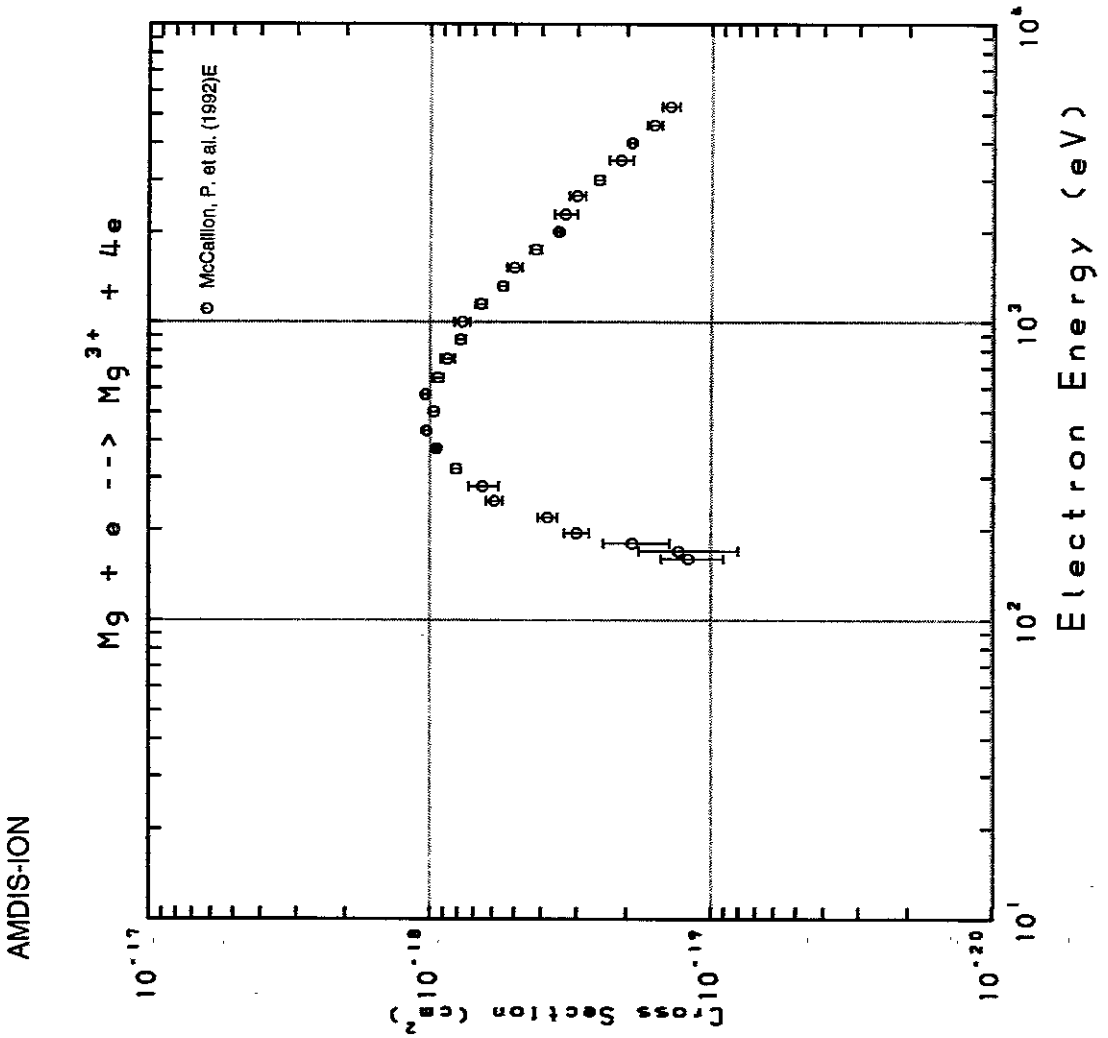

Fig. 81 Mg → Mg^{3+}

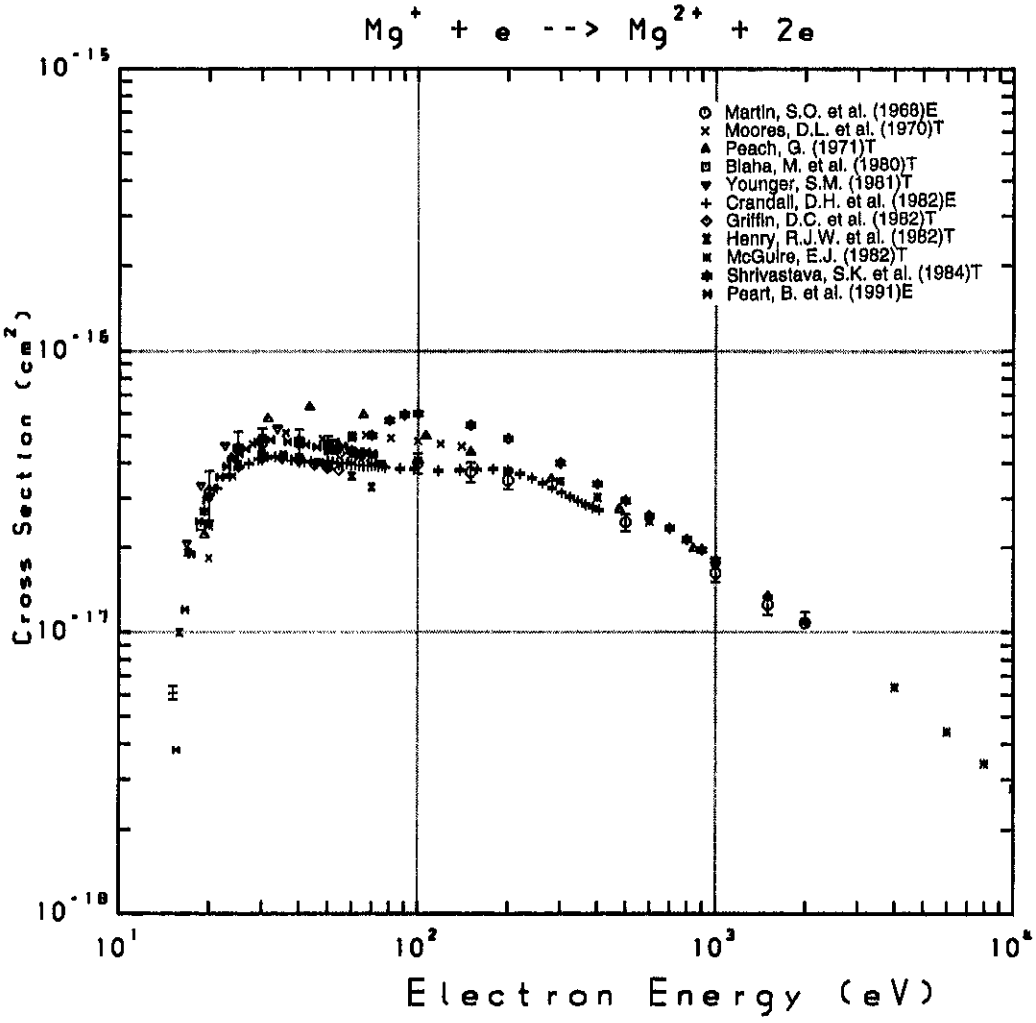

Fig. 83 $Mg^{+} \rightarrow Mg^{2+}$

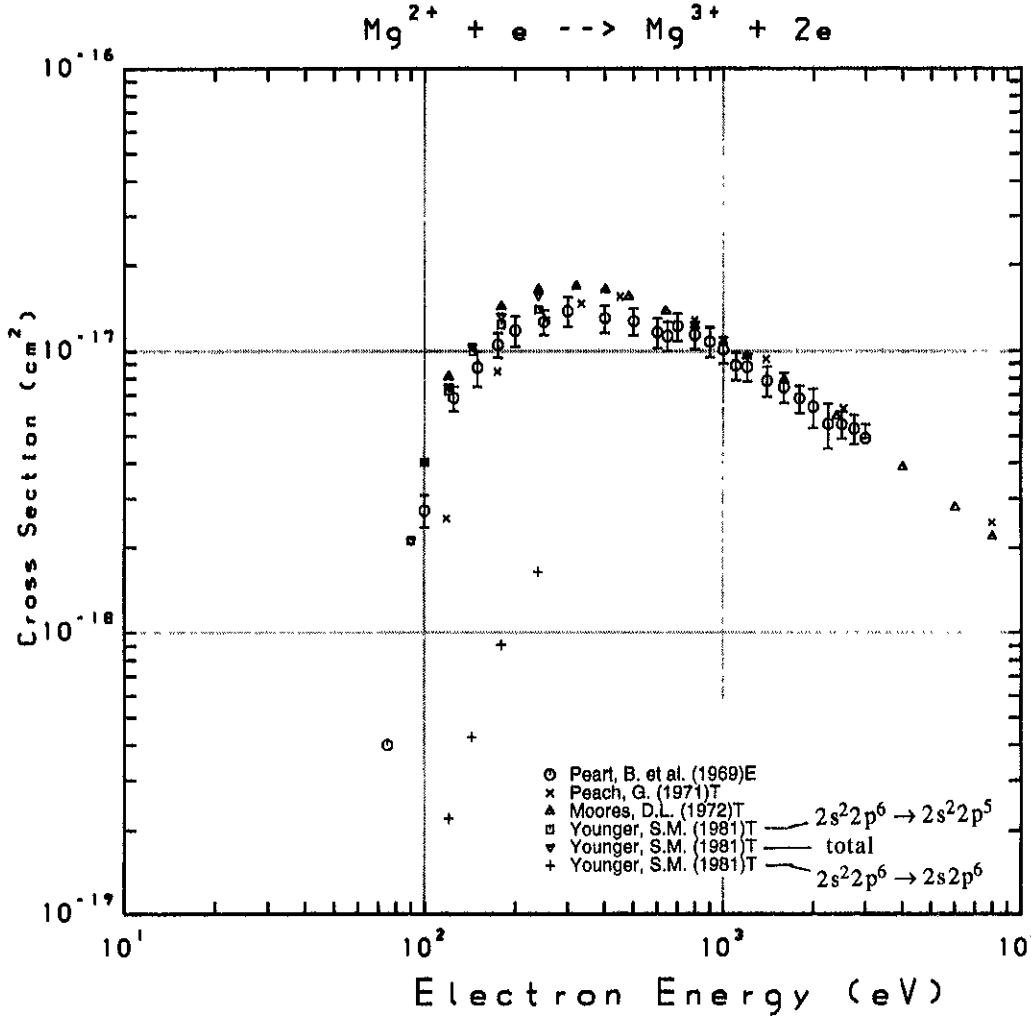

Fig. 84 $Mg^{2+} \rightarrow Mg^{3+}$

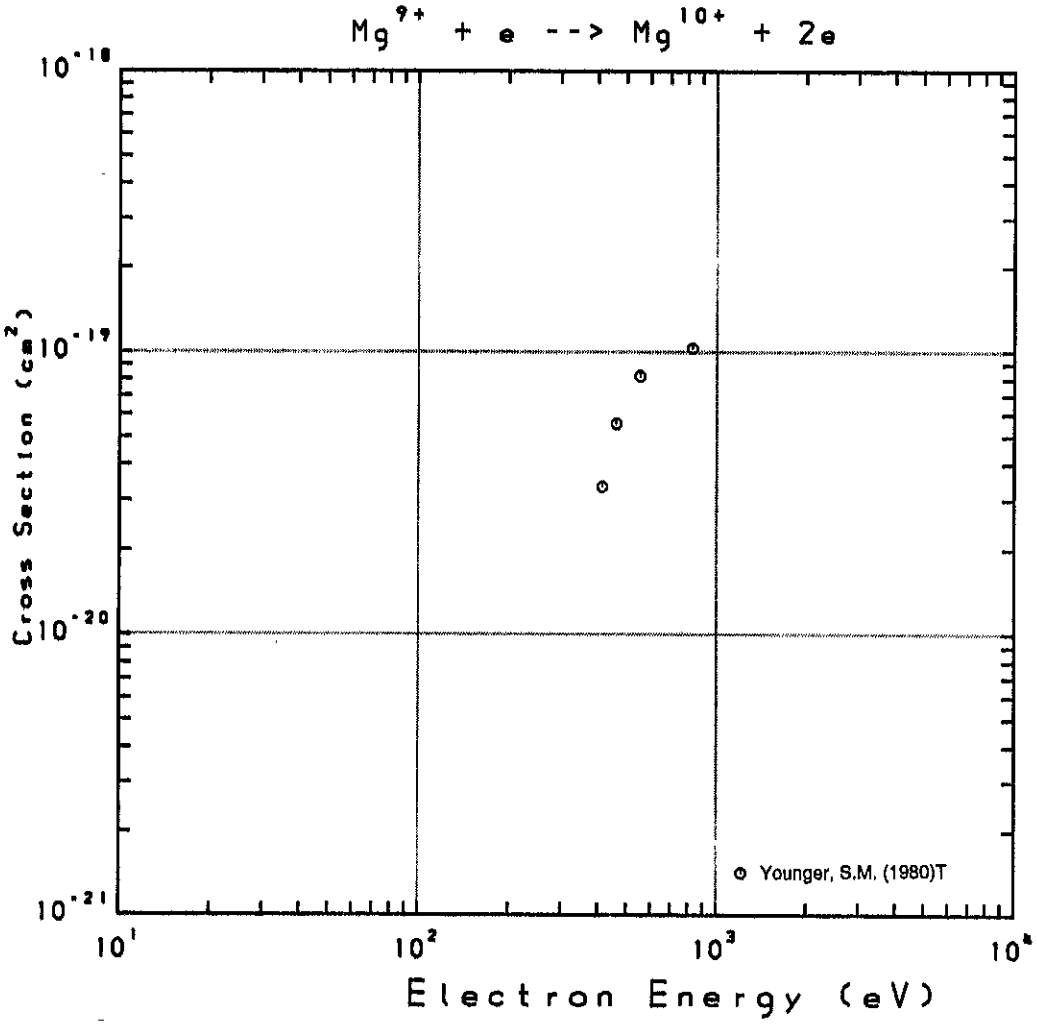

Fig. 85 $Mg^{9+} \rightarrow Mg^{10+}$

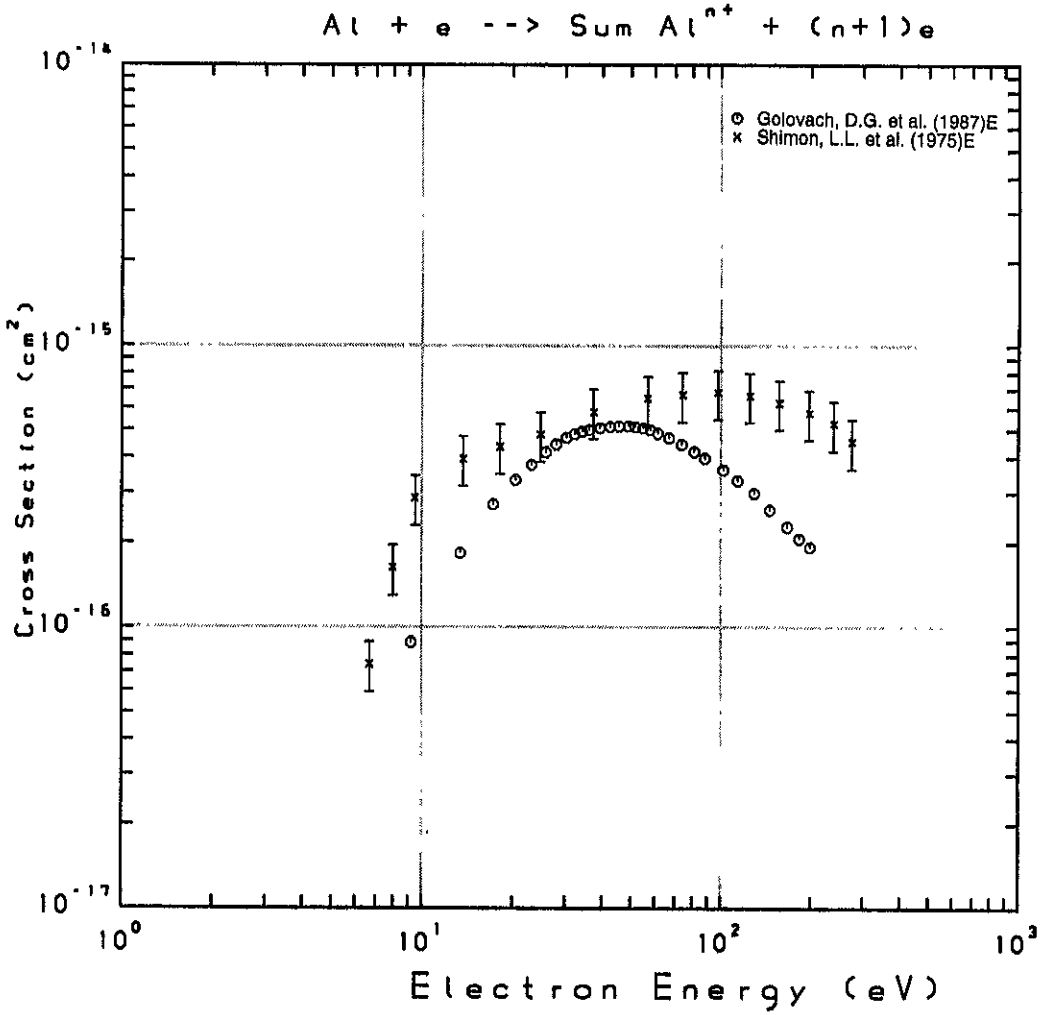

Fig. 86 $Al \rightarrow \Sigma Al^{n+}$

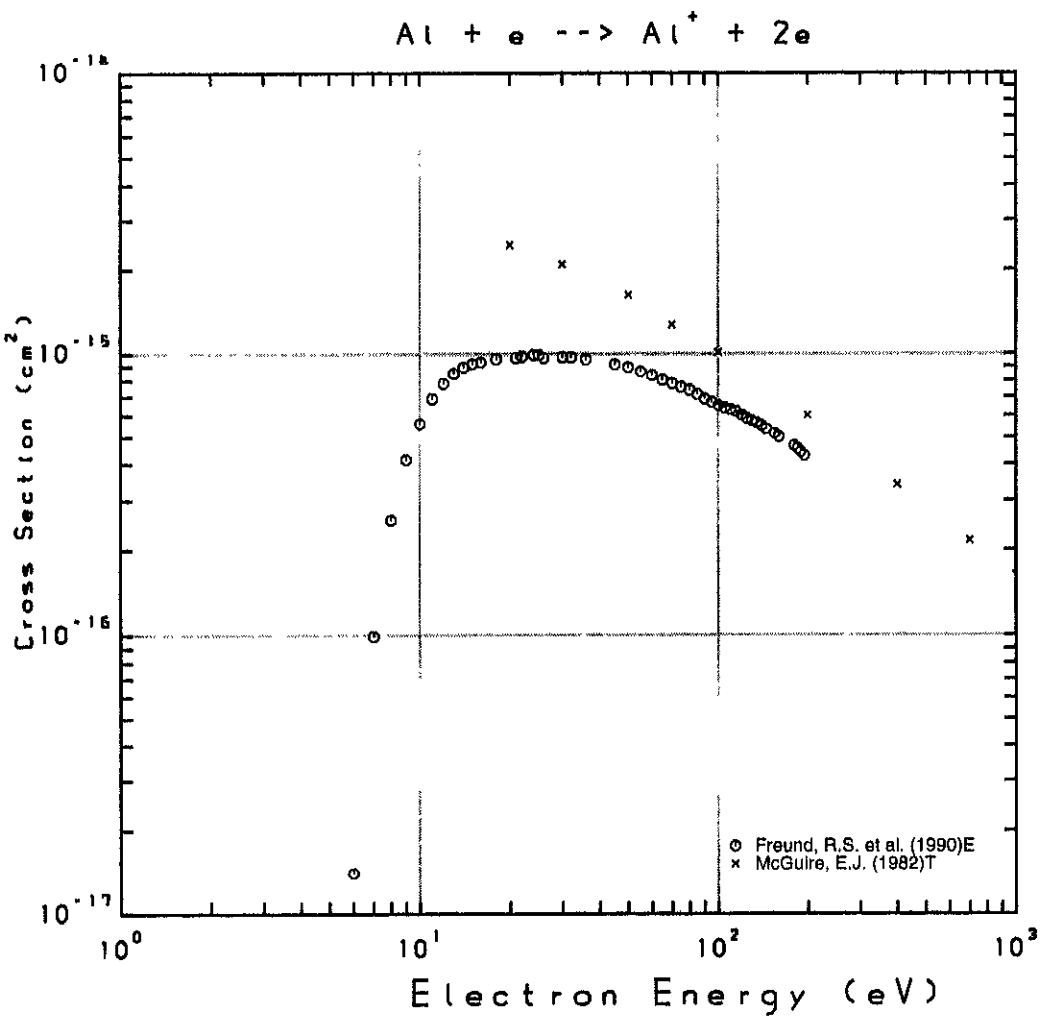

Fig. 87 $Al \rightarrow Al^{+}$

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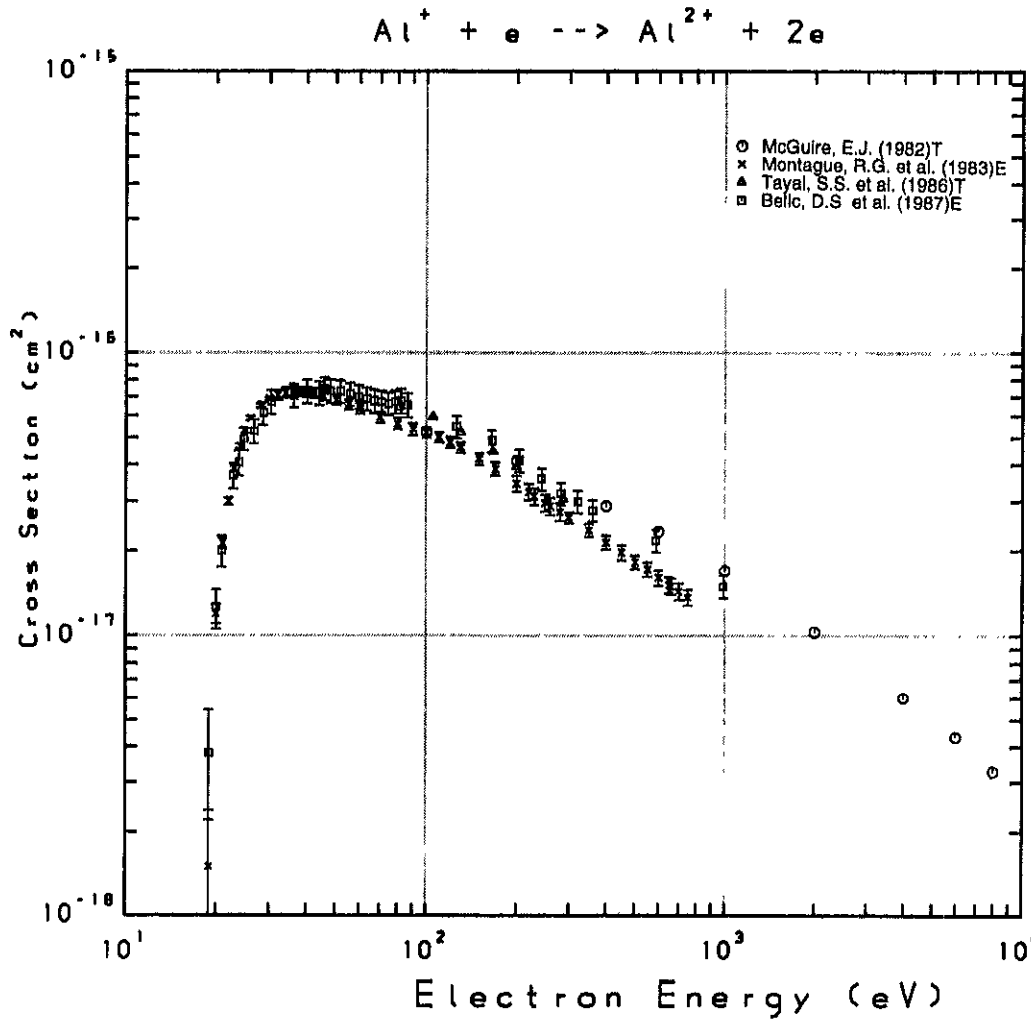

Fig. 88 $Al^{+} \rightarrow Al^{2+}$

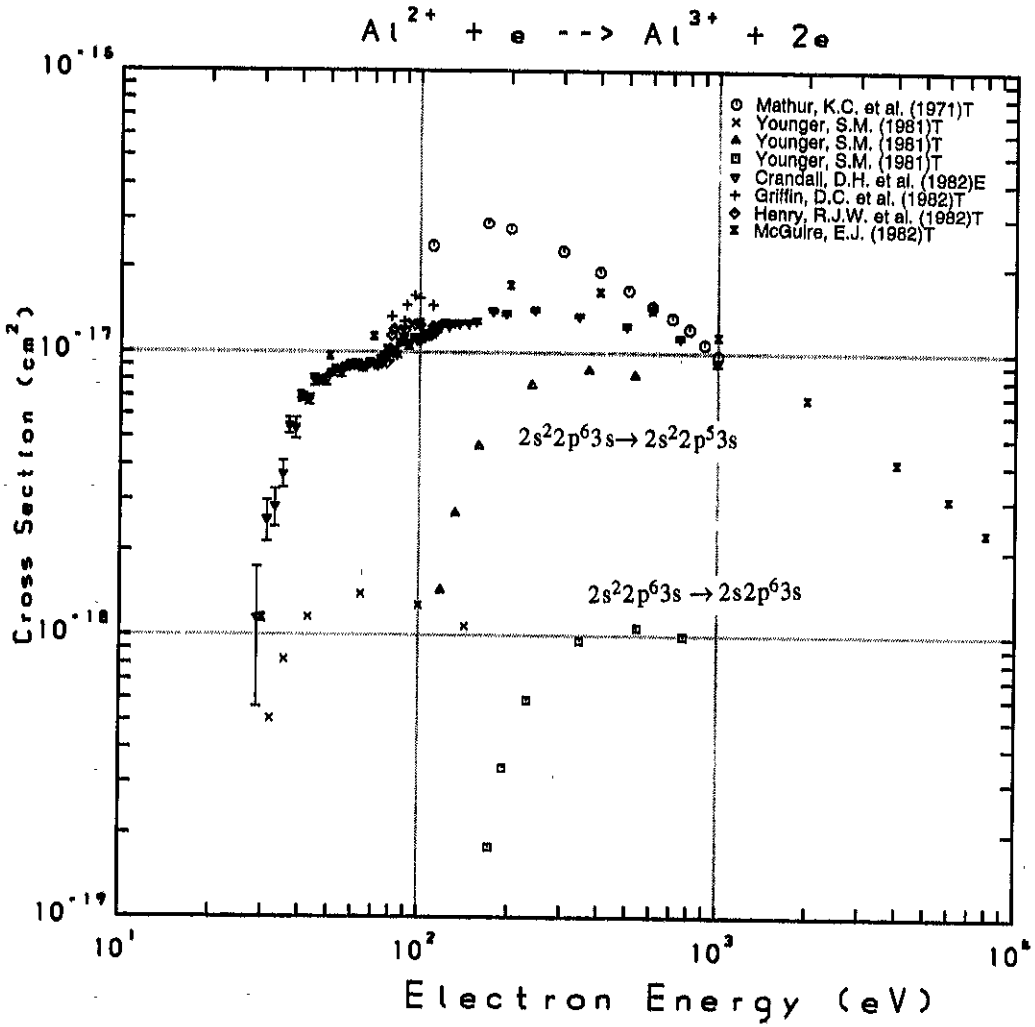

Fig. 89 $Al^{2+} \rightarrow Al^{3+}$

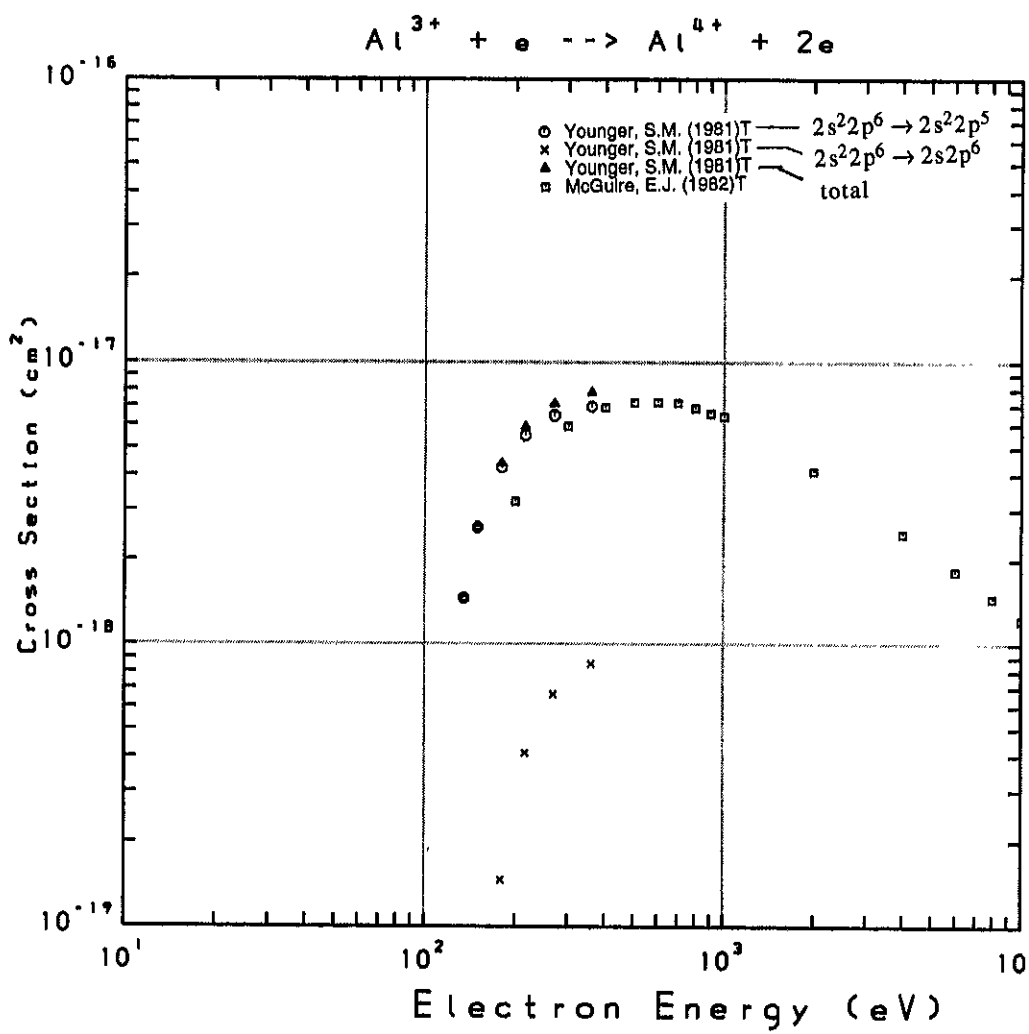

Fig. 90 $Al^{3+} \rightarrow Al^{4+}$

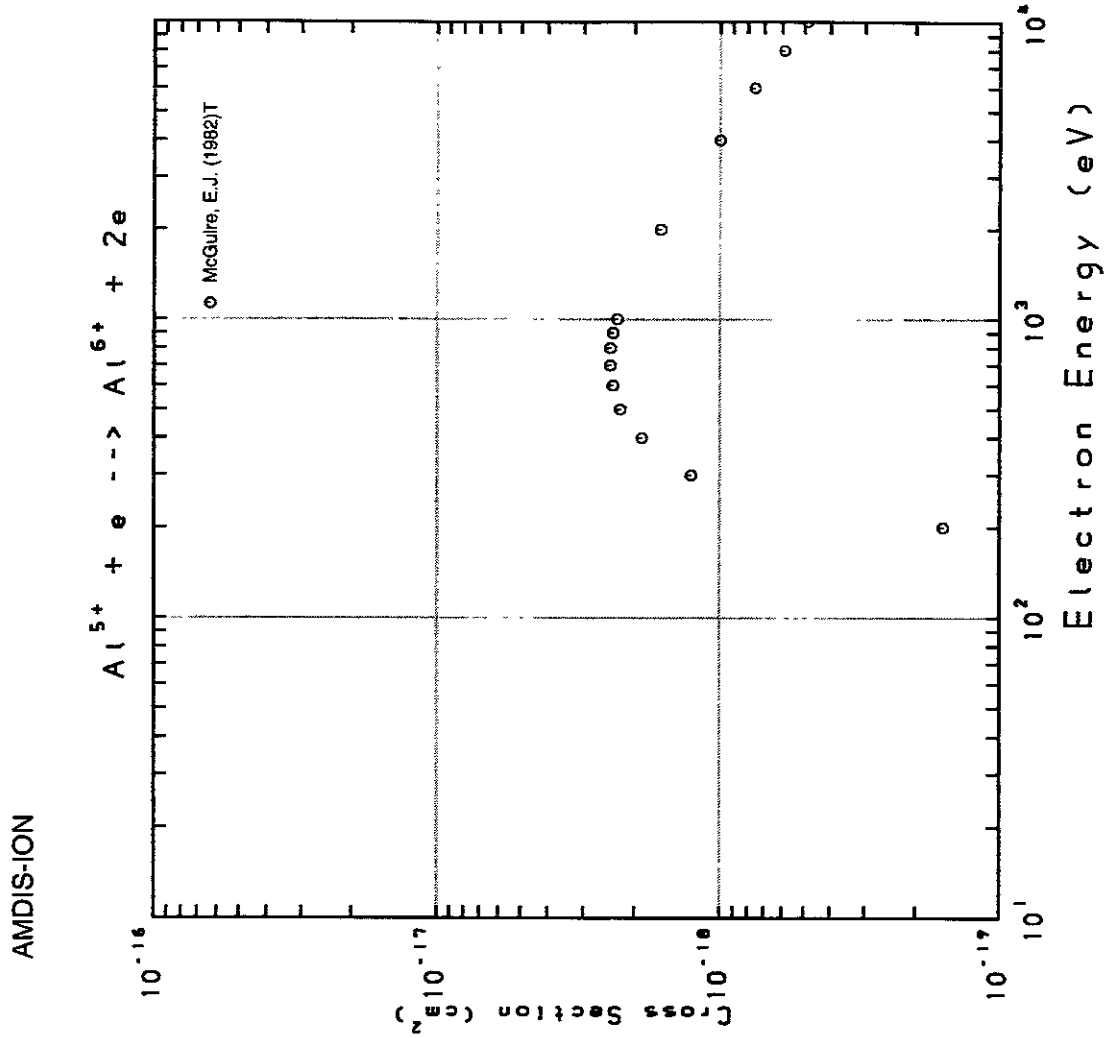

Fig. 92 $Al^{5+} \rightarrow Al^{6+}$

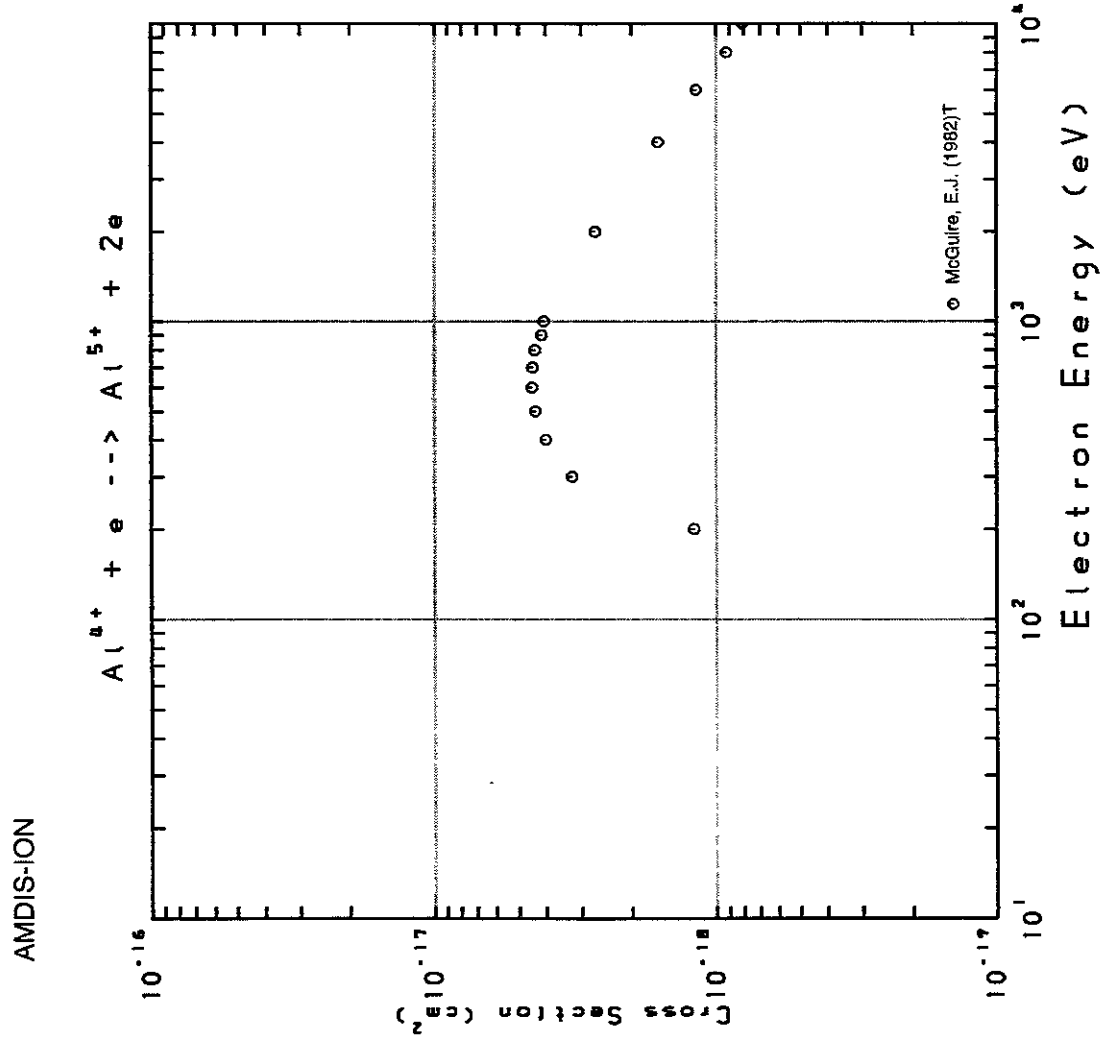

Fig. 91 $Al^{4+} \rightarrow Al^{5+}$

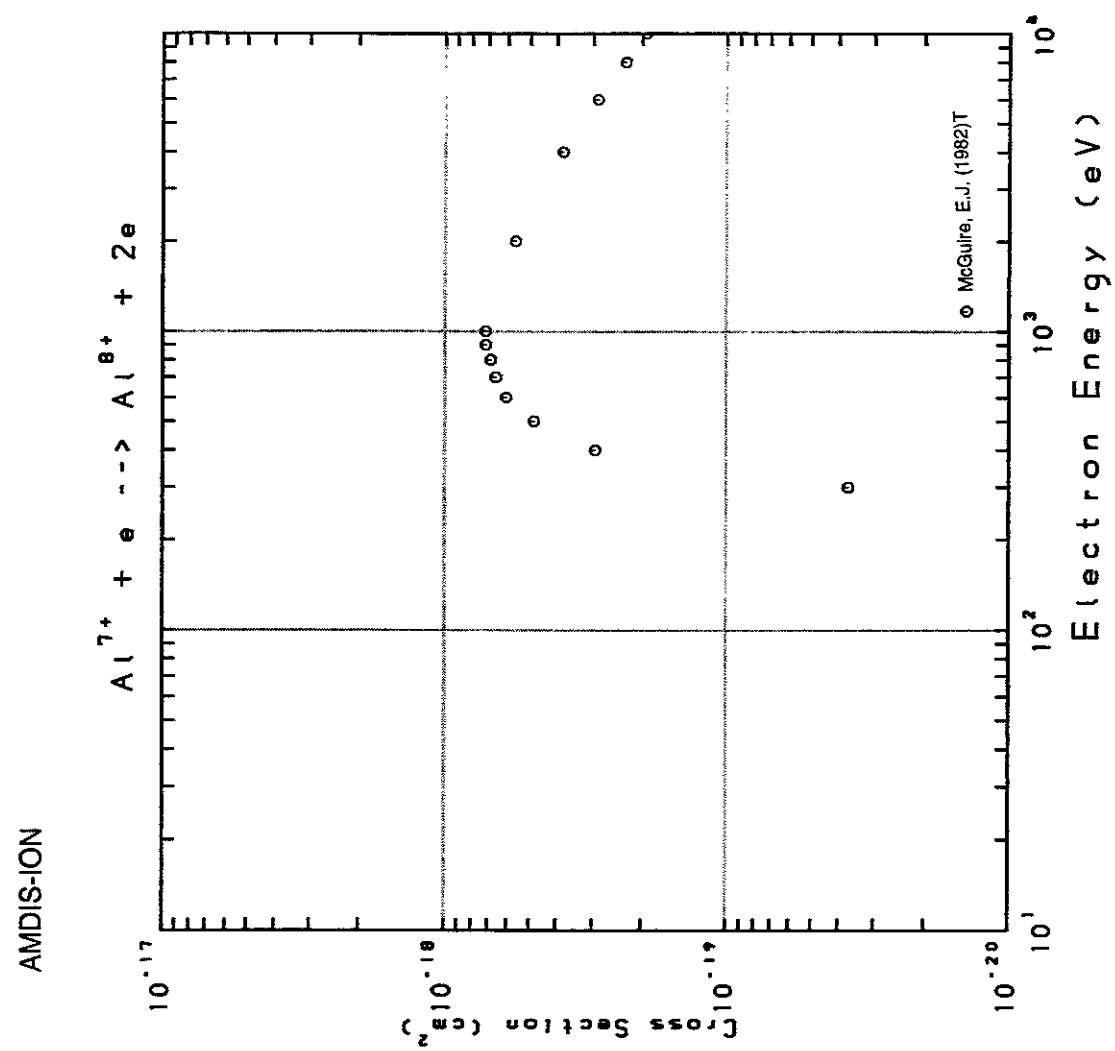

Fig. 94 $Al^{7+} \rightarrow Al^{8+}$

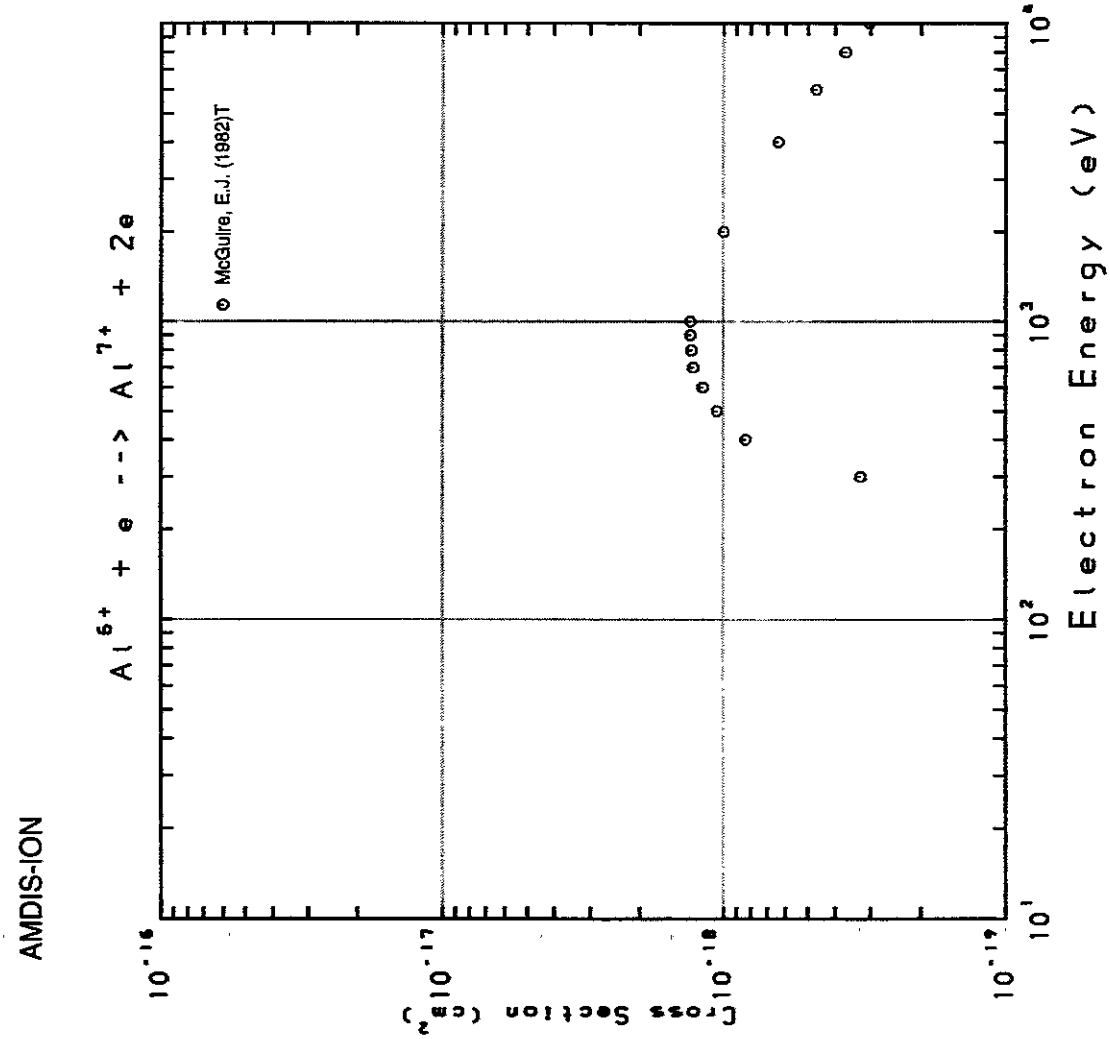

Fig. 93 $Al^{6+} \rightarrow Al^{7+}$

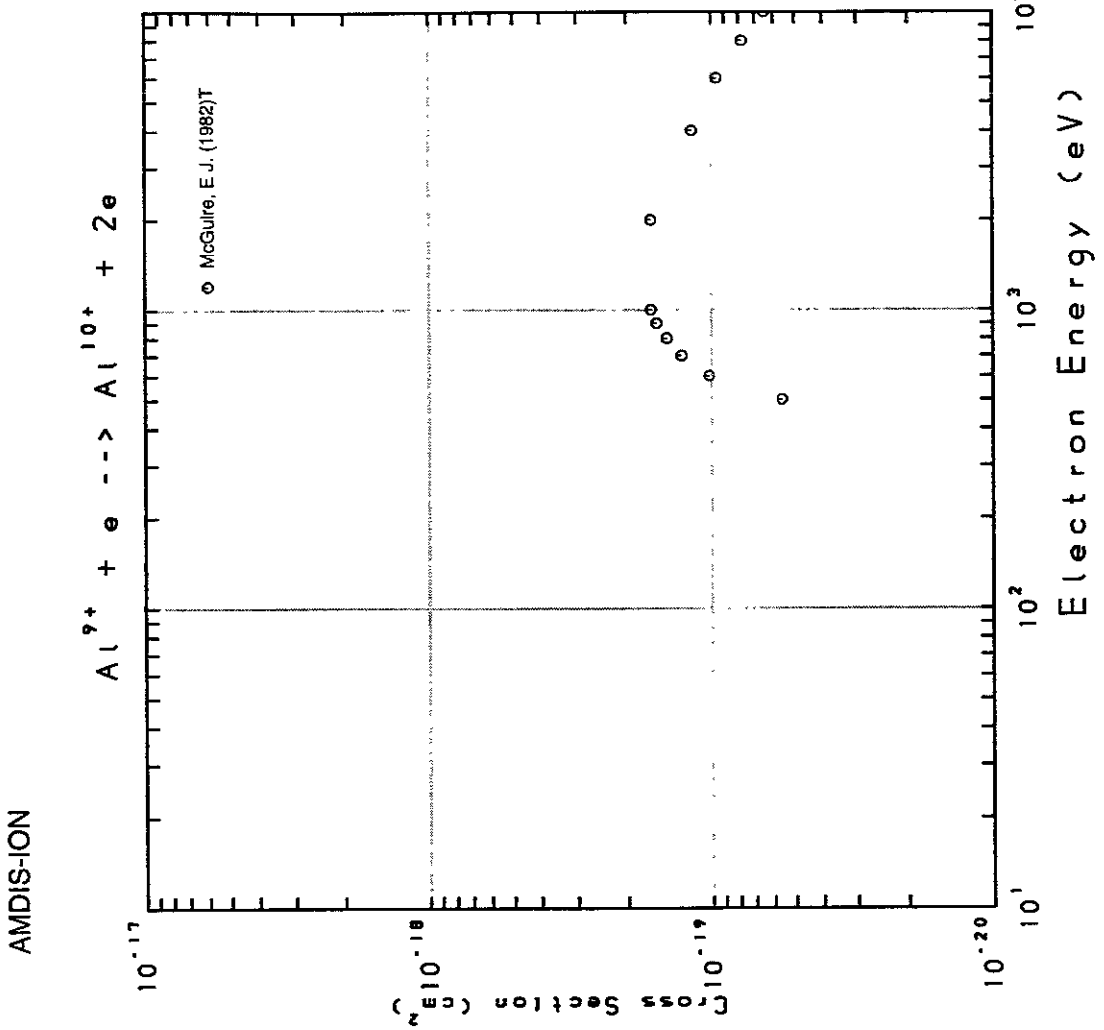

Fig. 96 $Al^{9+} \rightarrow Al^{10+}$

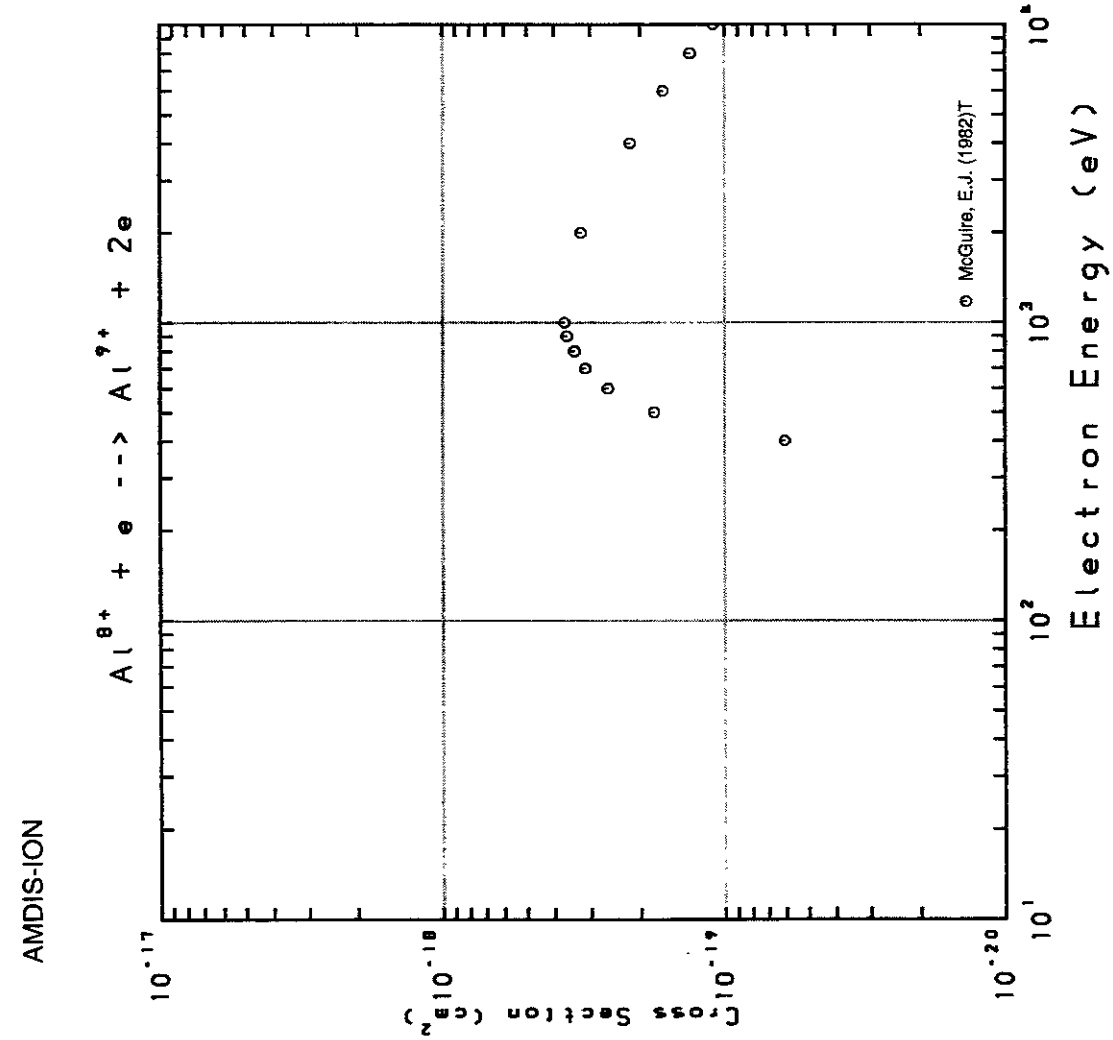

Fig. 95 $Al^{8+} \rightarrow Al^{9+}$

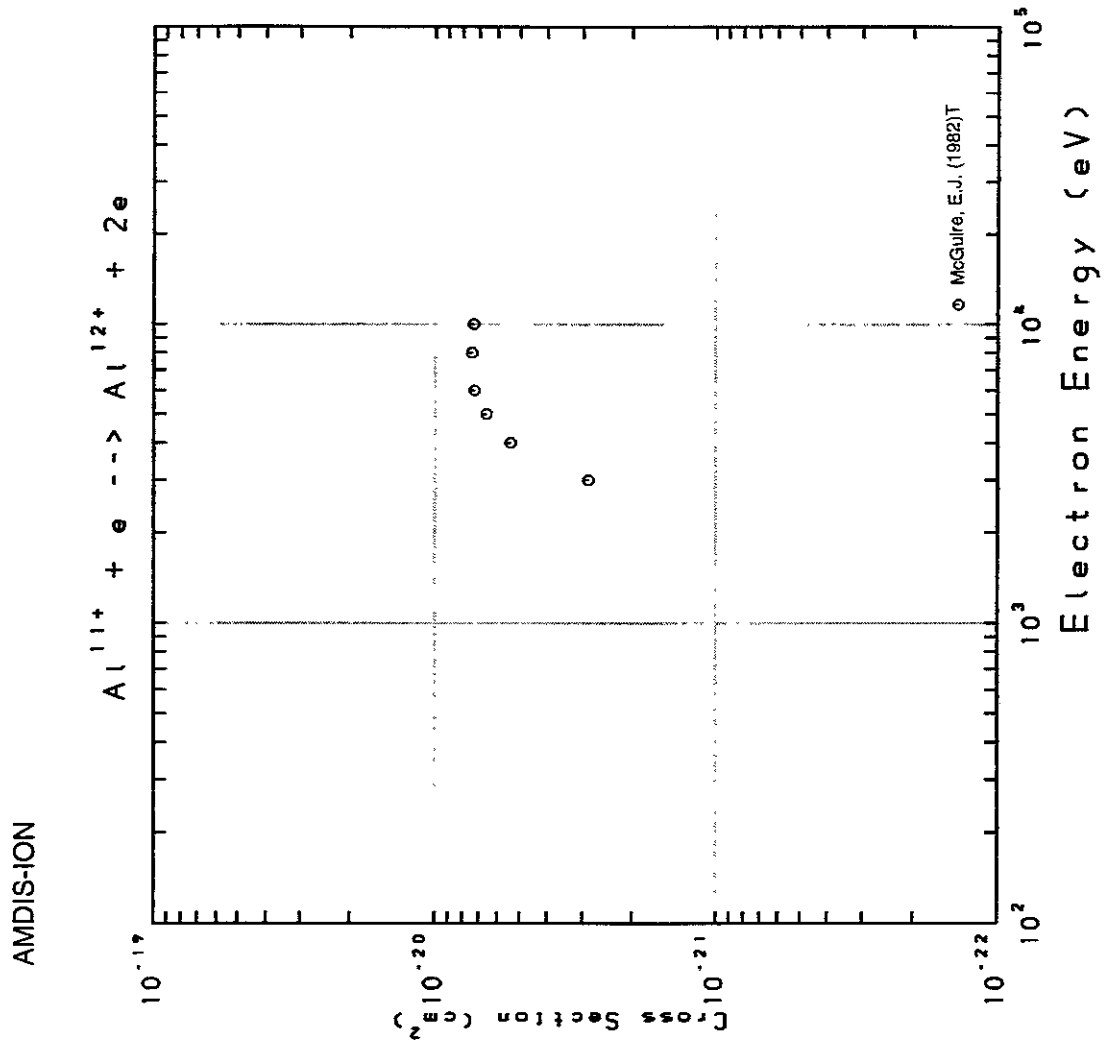

Fig. 98 $Al^{11+} \rightarrow Al^{12+}$

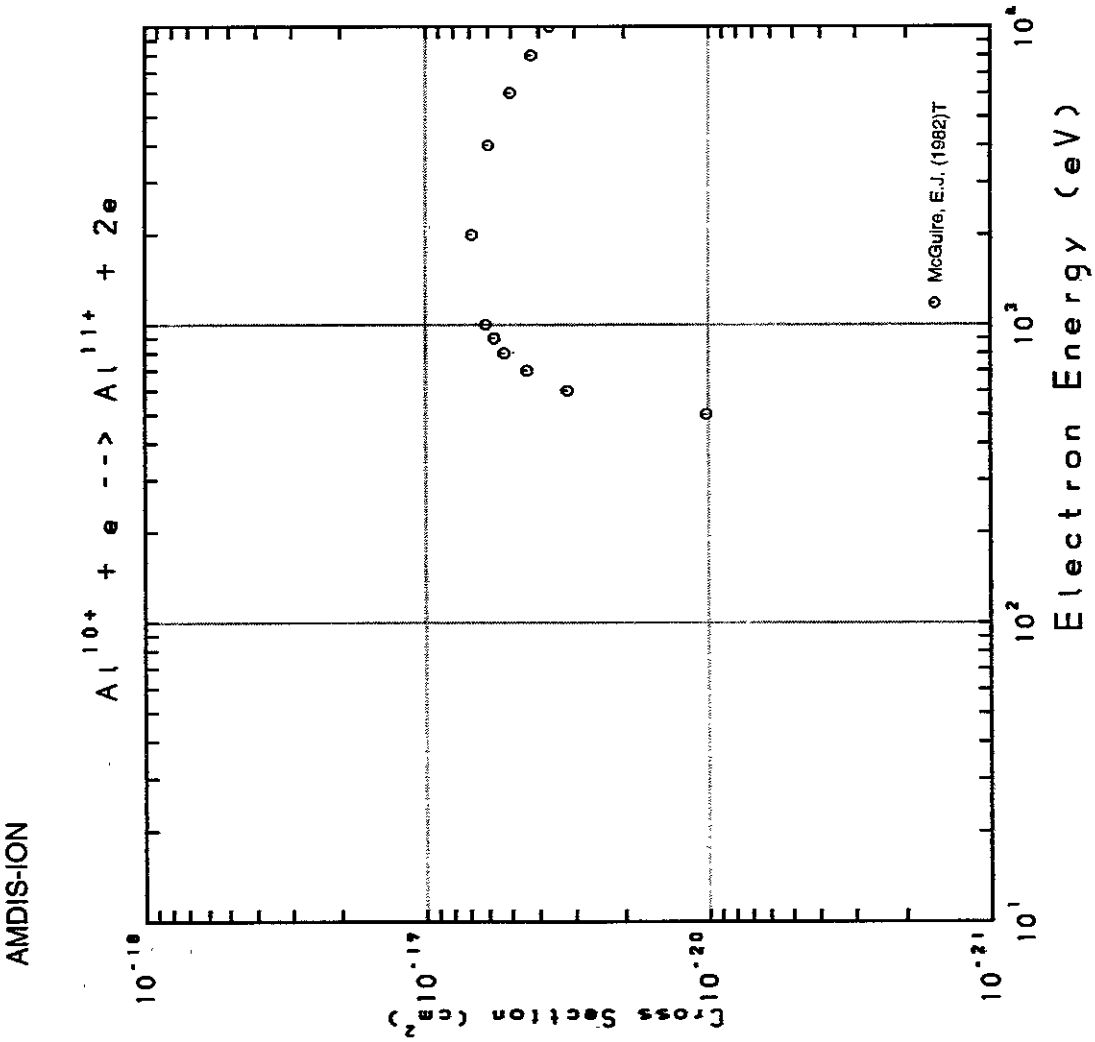

Fig. 97 $Al^{10+} \rightarrow Al^{11+}$

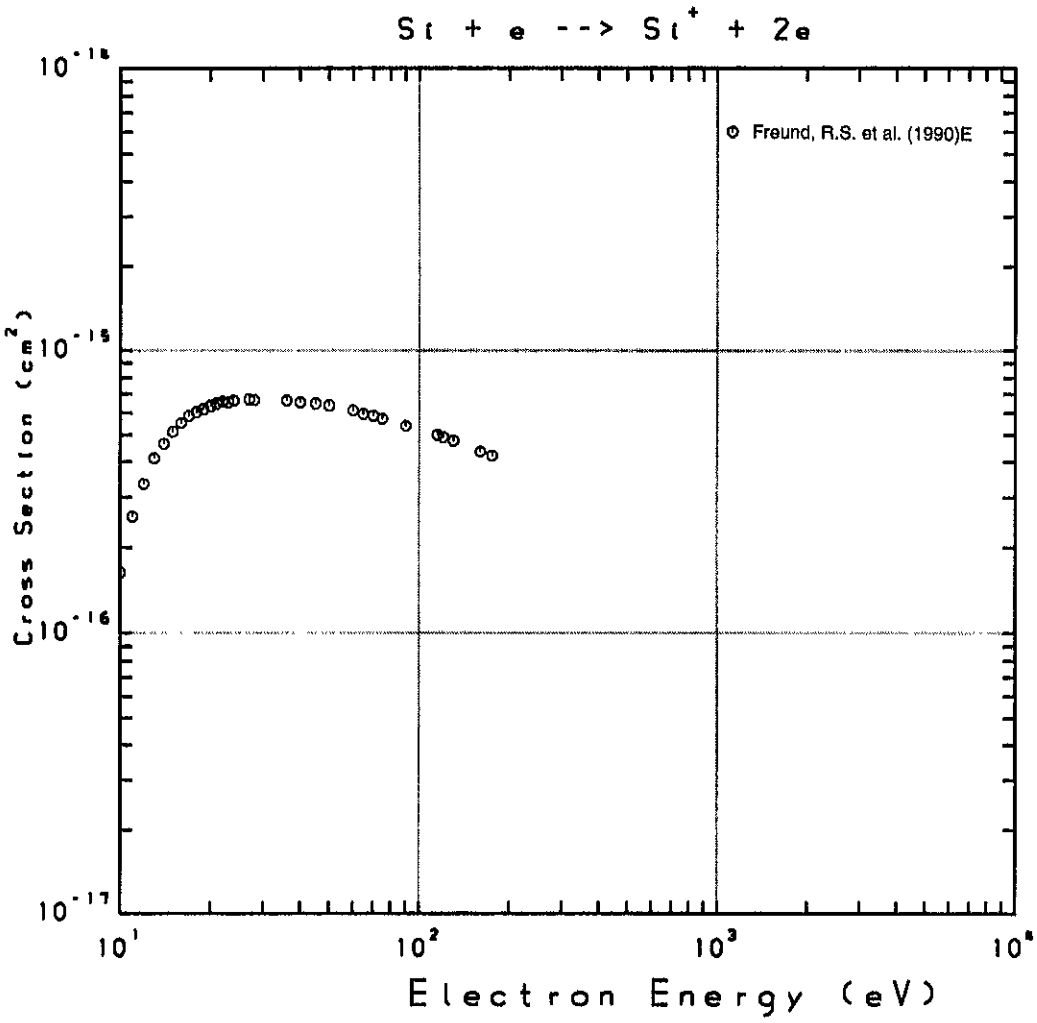

Fig. 99 Si → Si^{+}

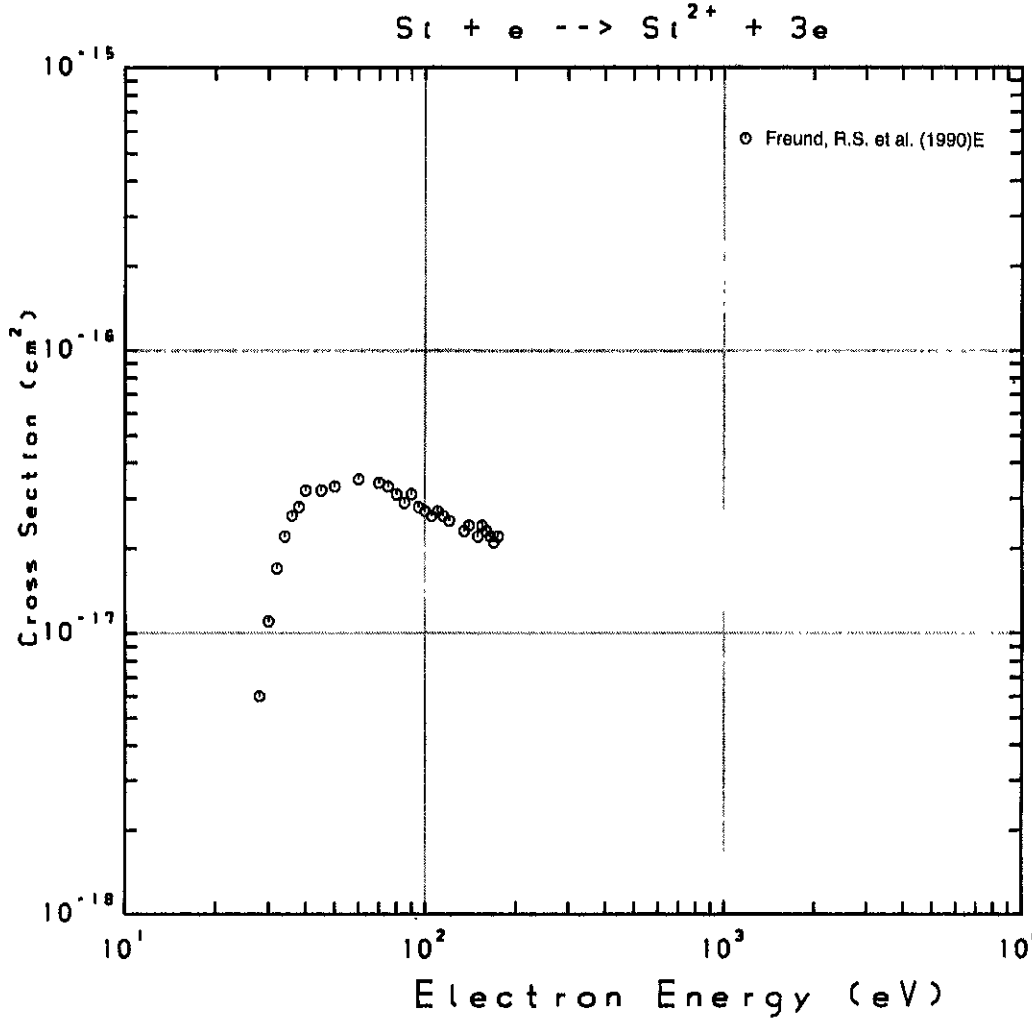

Fig. 100 Si → Si^{2+}

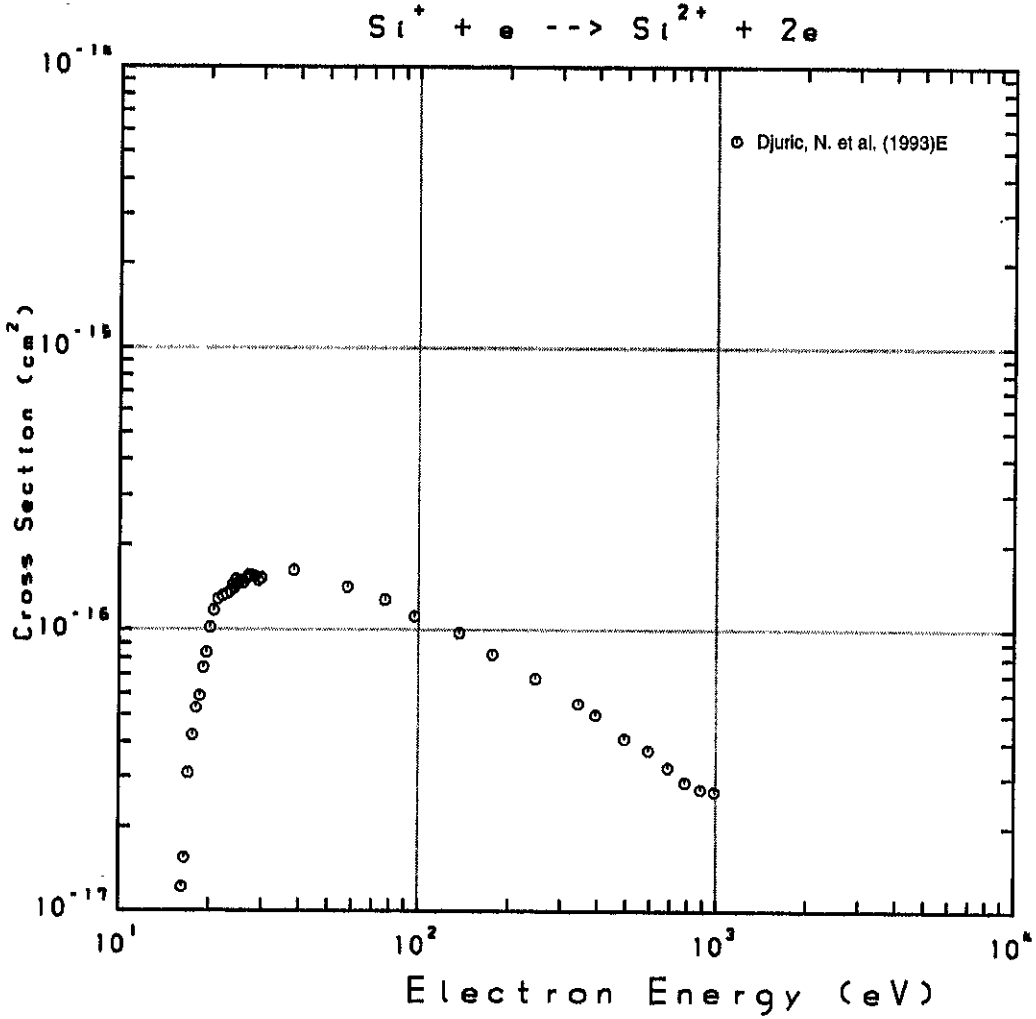

Fig. 101 $Si^{+} \rightarrow Si^{2+}$

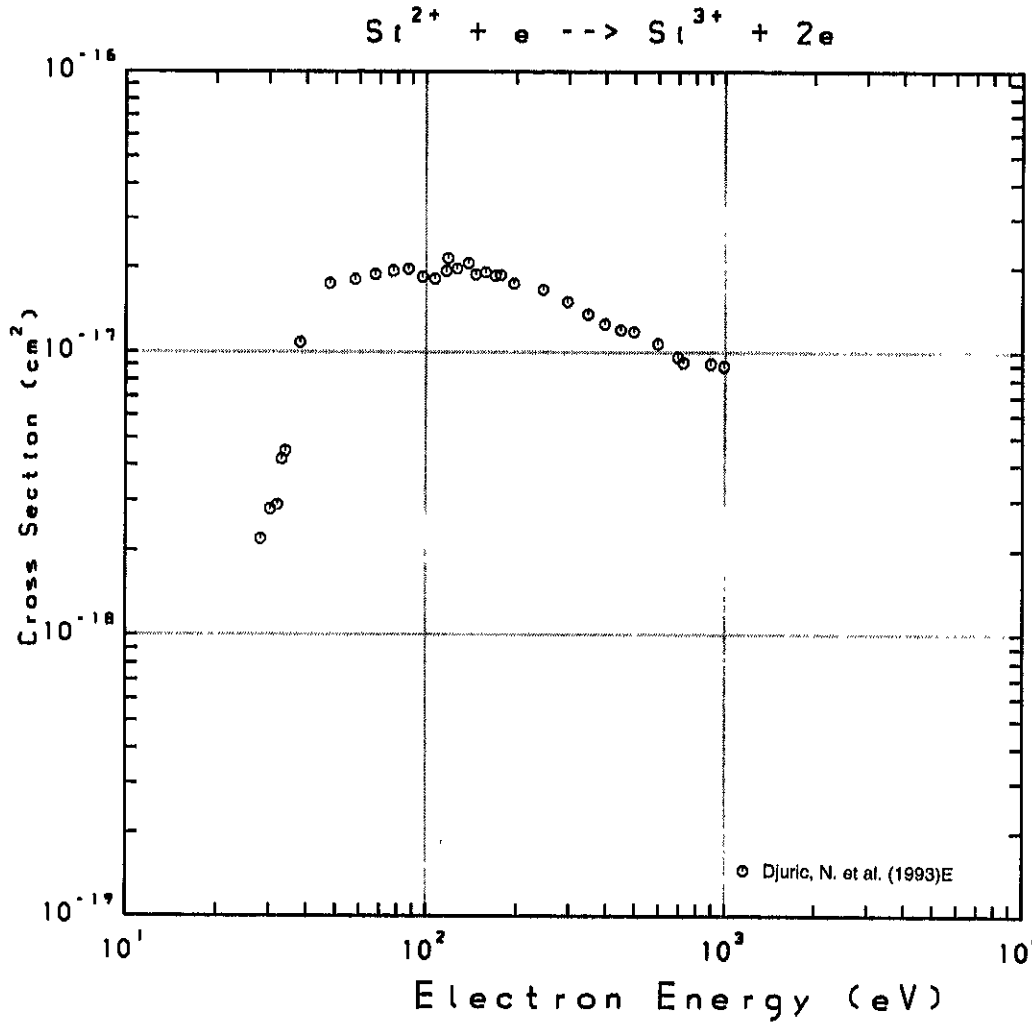

Fig. 102 $Si^{2+} \rightarrow Si^{3+}$

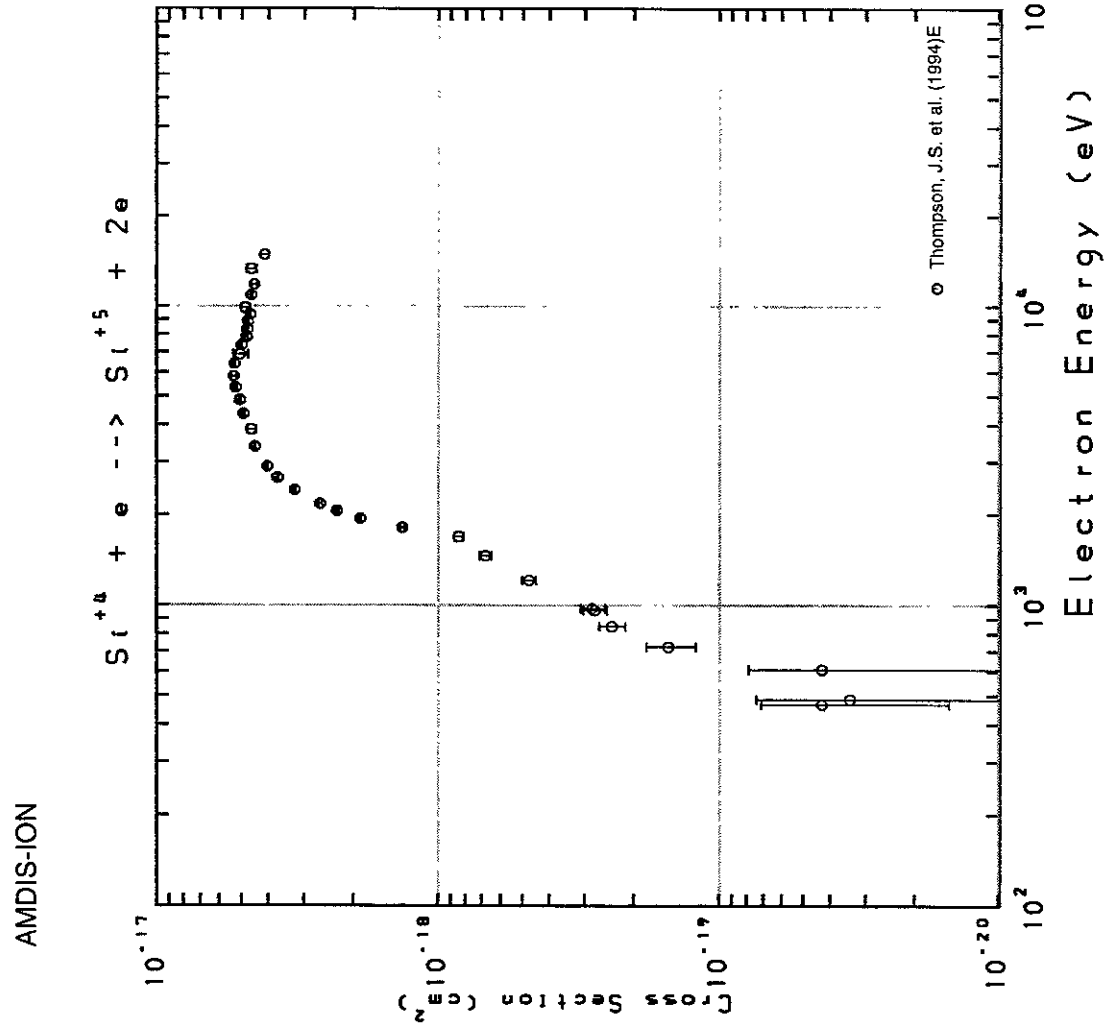

Fig. 104 $Si^{4+} \rightarrow Si^{5+}$

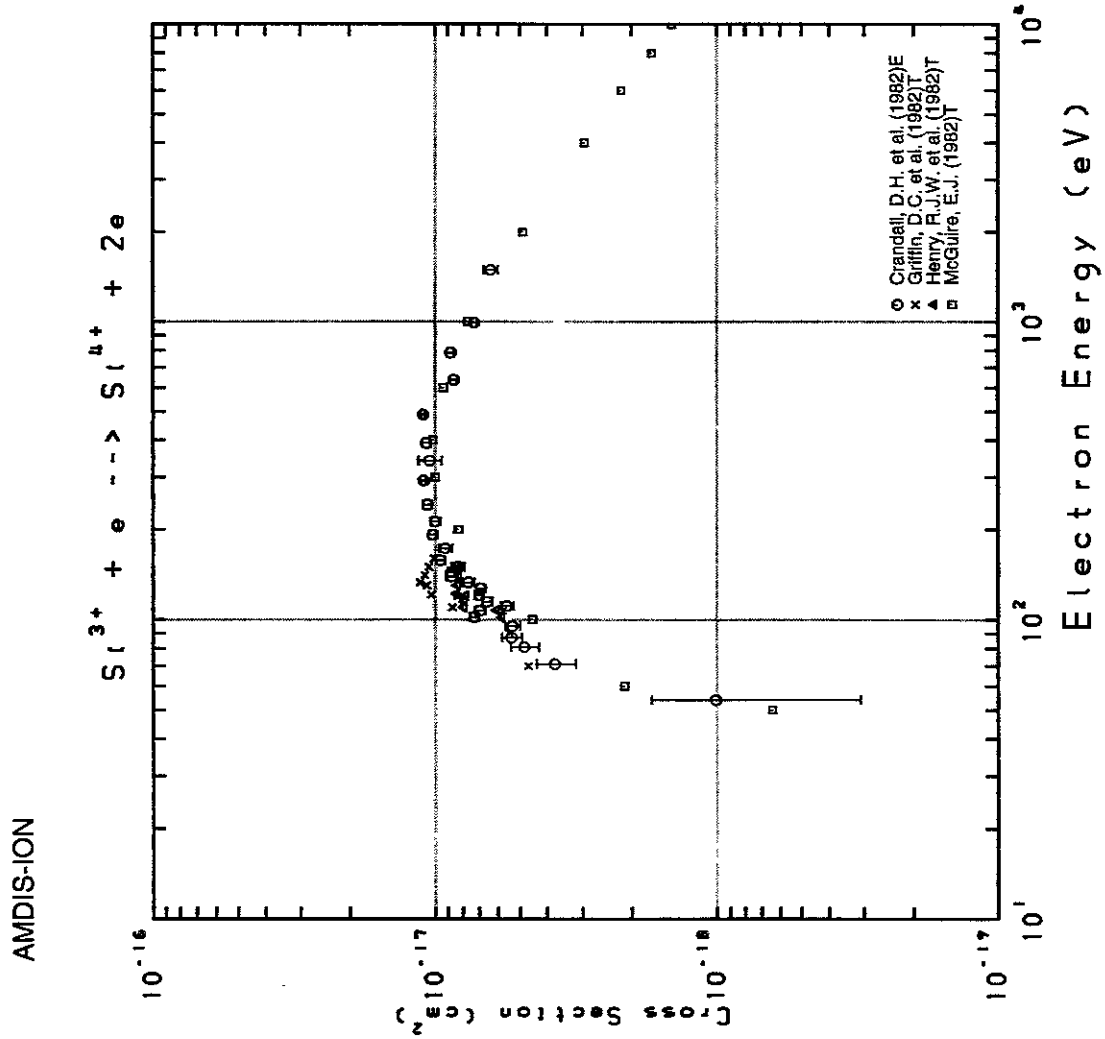

Fig. 103 $Si^{3+} \rightarrow Si^{4+}$

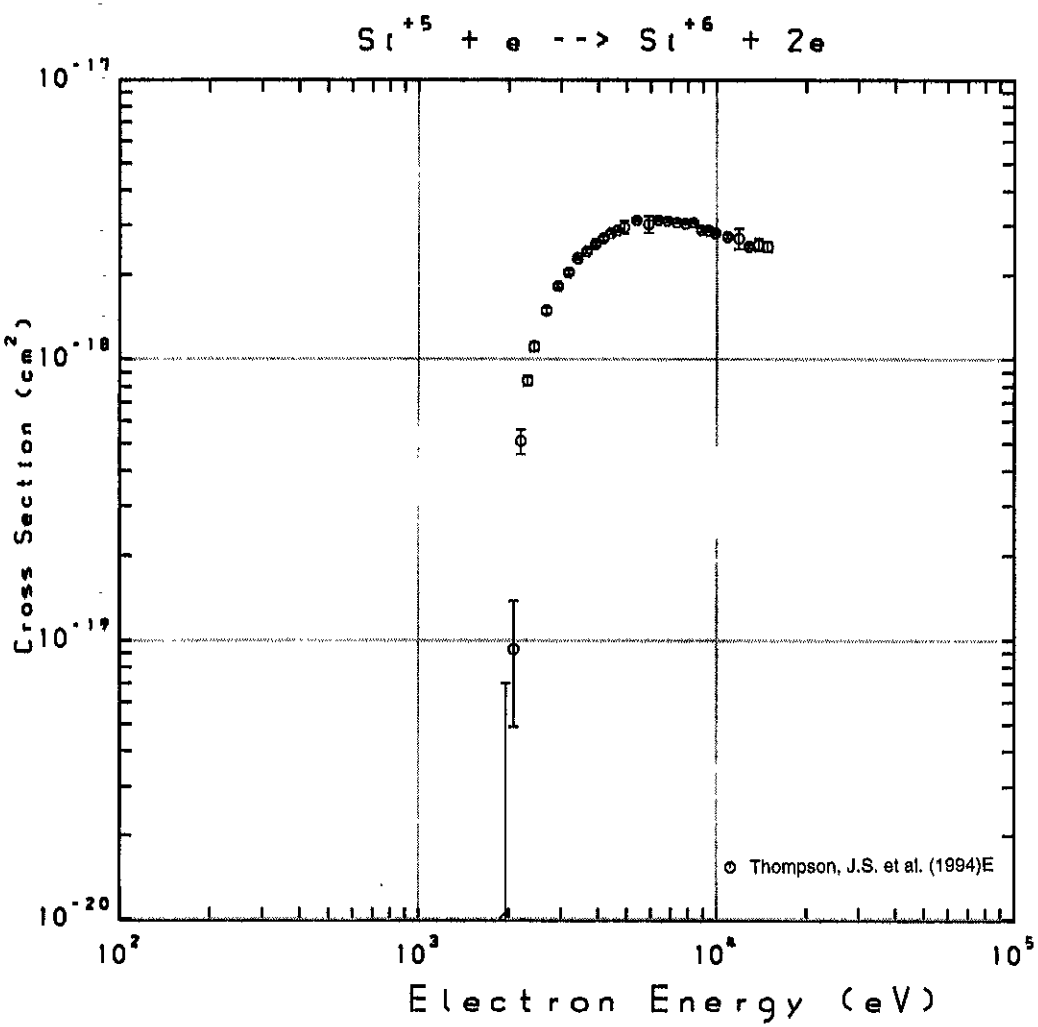

Fig. 105 $Si^{5+} \rightarrow Si^{6+}$

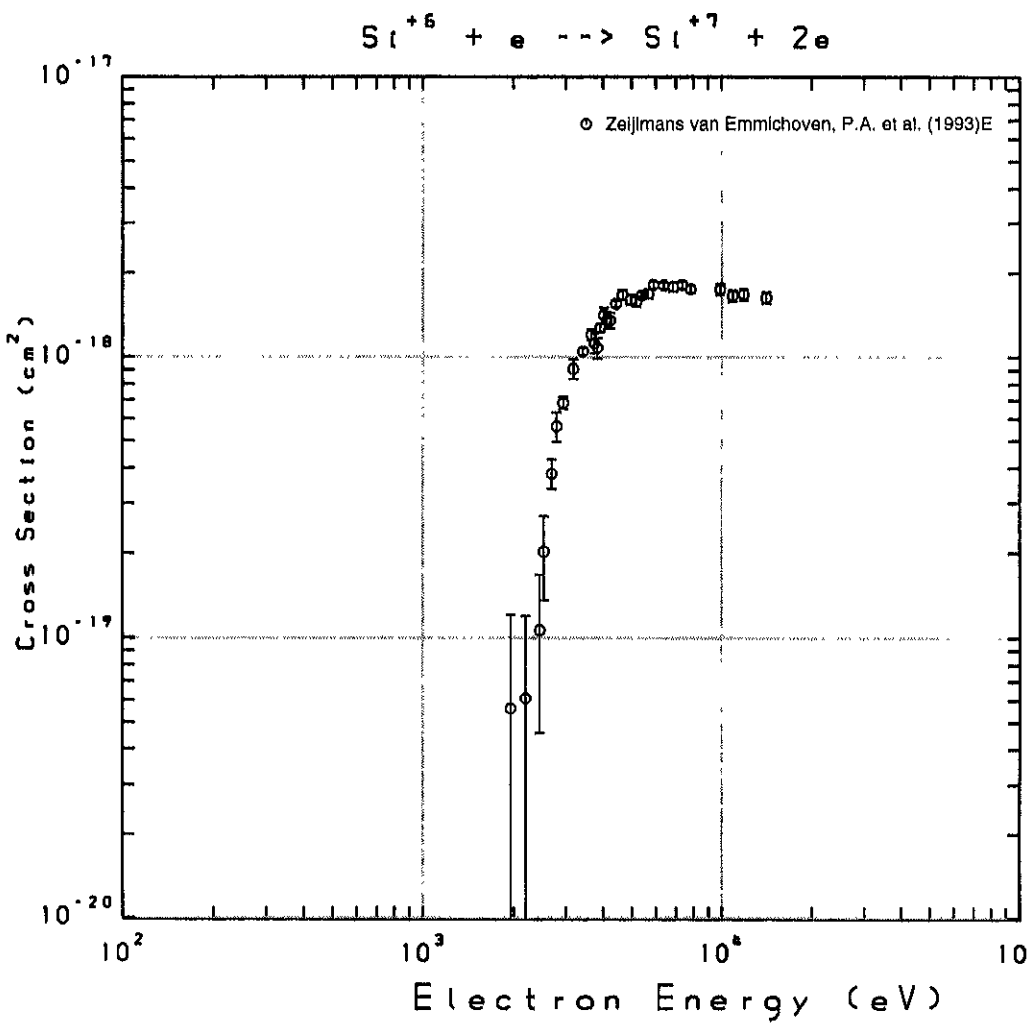

Fig. 106 $Si^{6+} \rightarrow Si^{7+}$

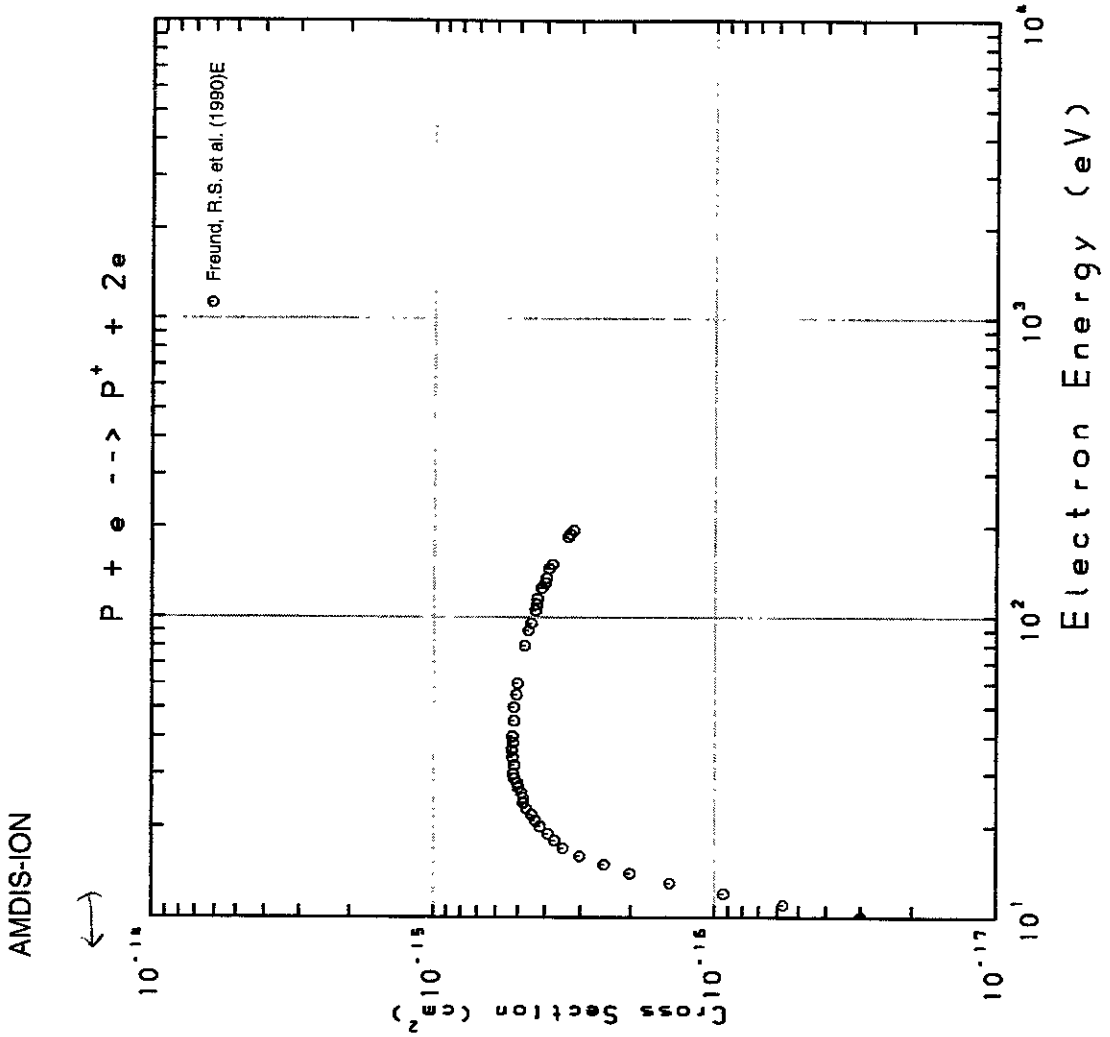

Fig. 108 $P \rightarrow P^+$

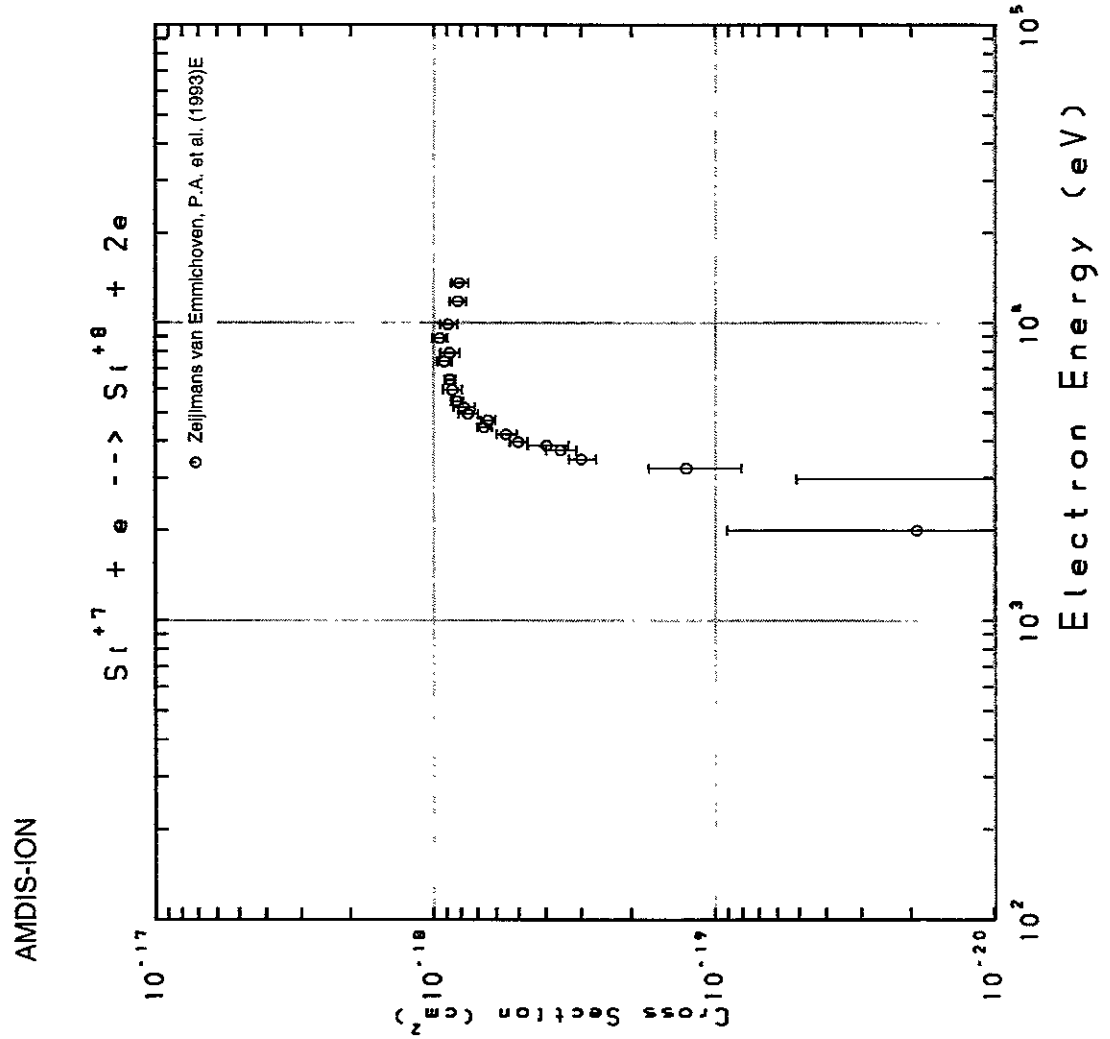

Fig. 107 $Si^{7+} \rightarrow Si^{8+}$

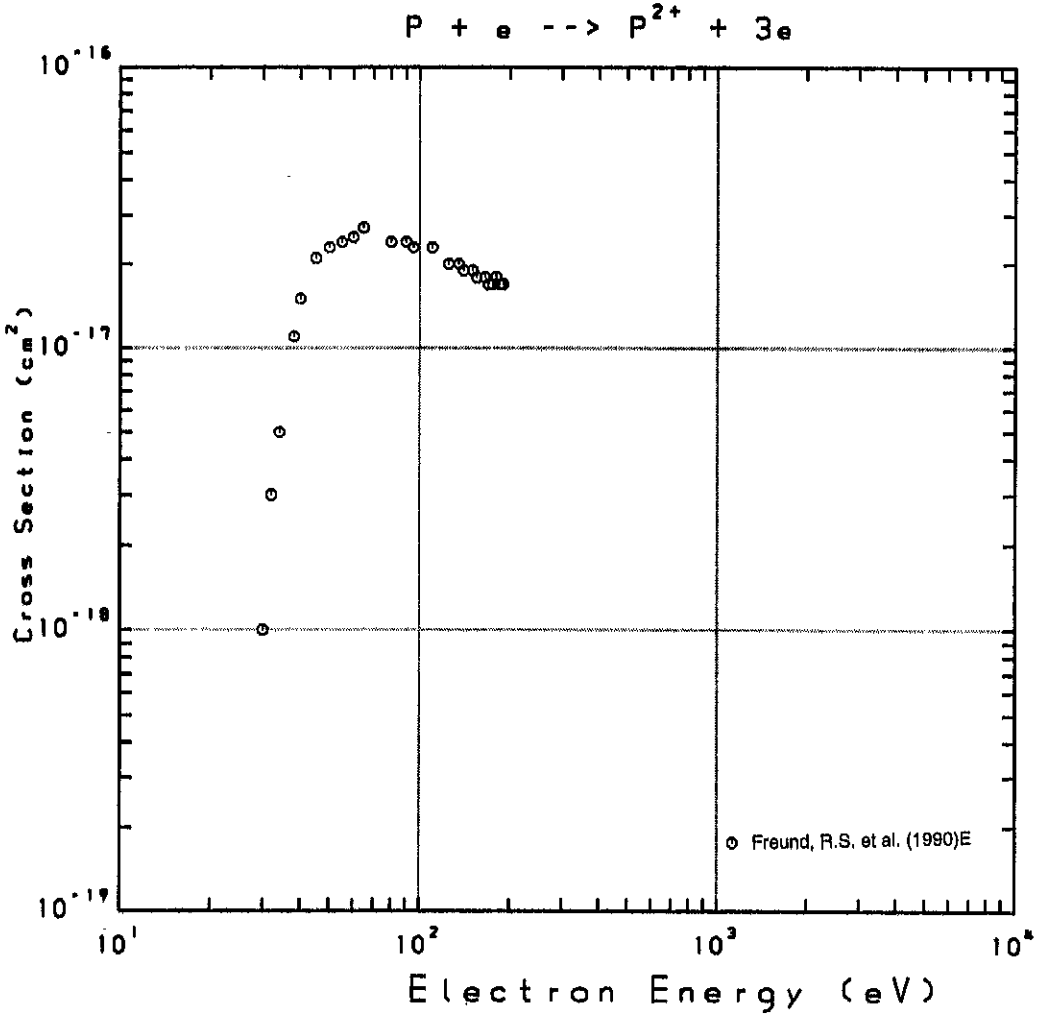

Fig. 109 $P \rightarrow P^{2+}$

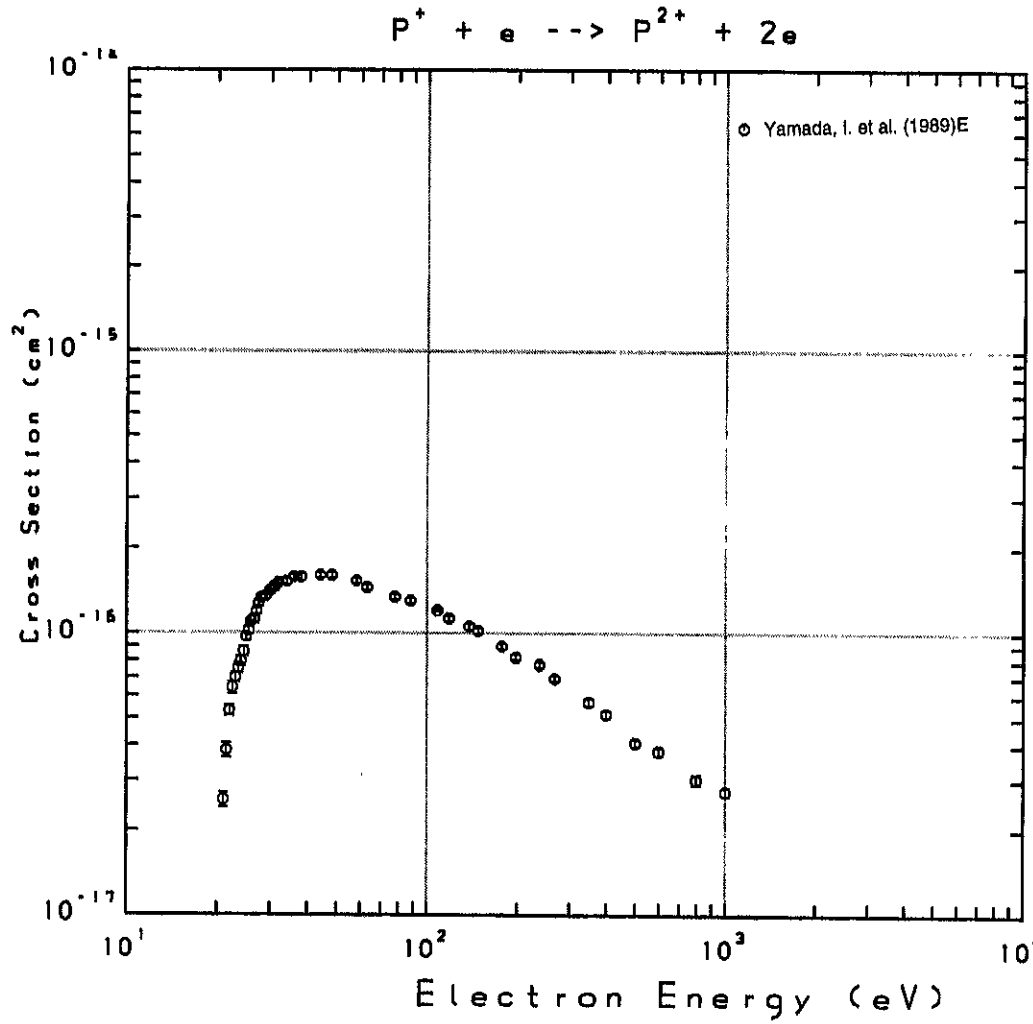

Fig. 110 $P^{+} \rightarrow P^{2+}$

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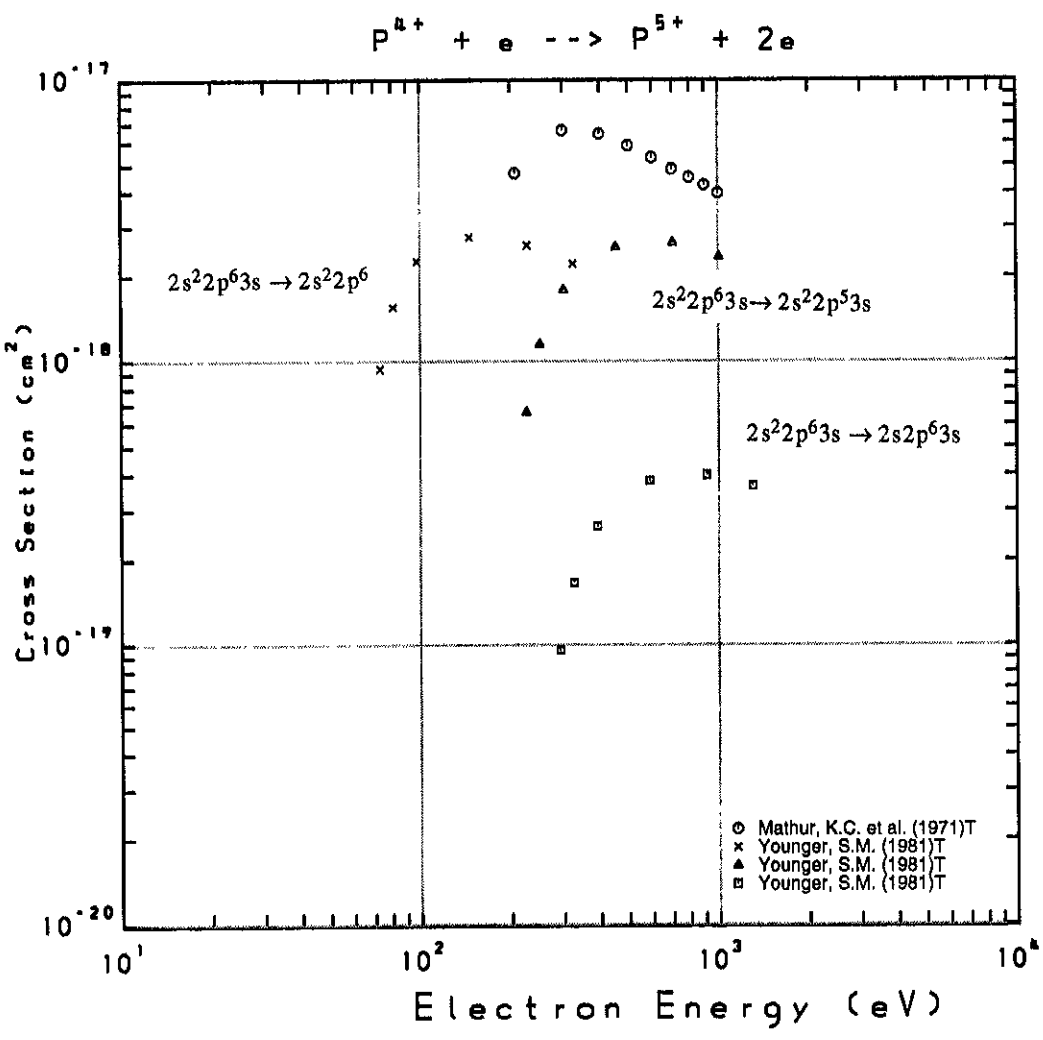

Fig. 111 $P^{4+} \rightarrow P^{5+}$

AMDIS-ION

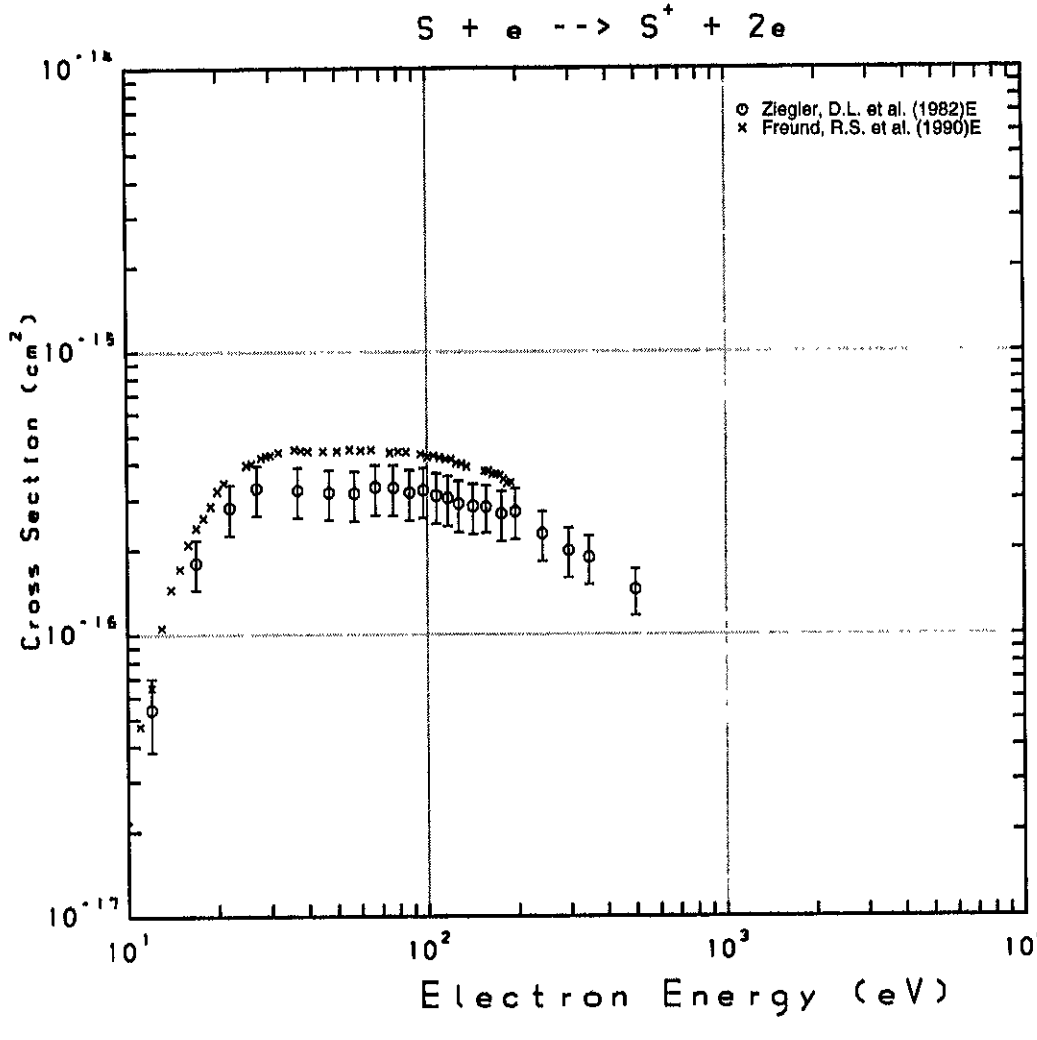

Fig. 112 $S \rightarrow S^{+}$

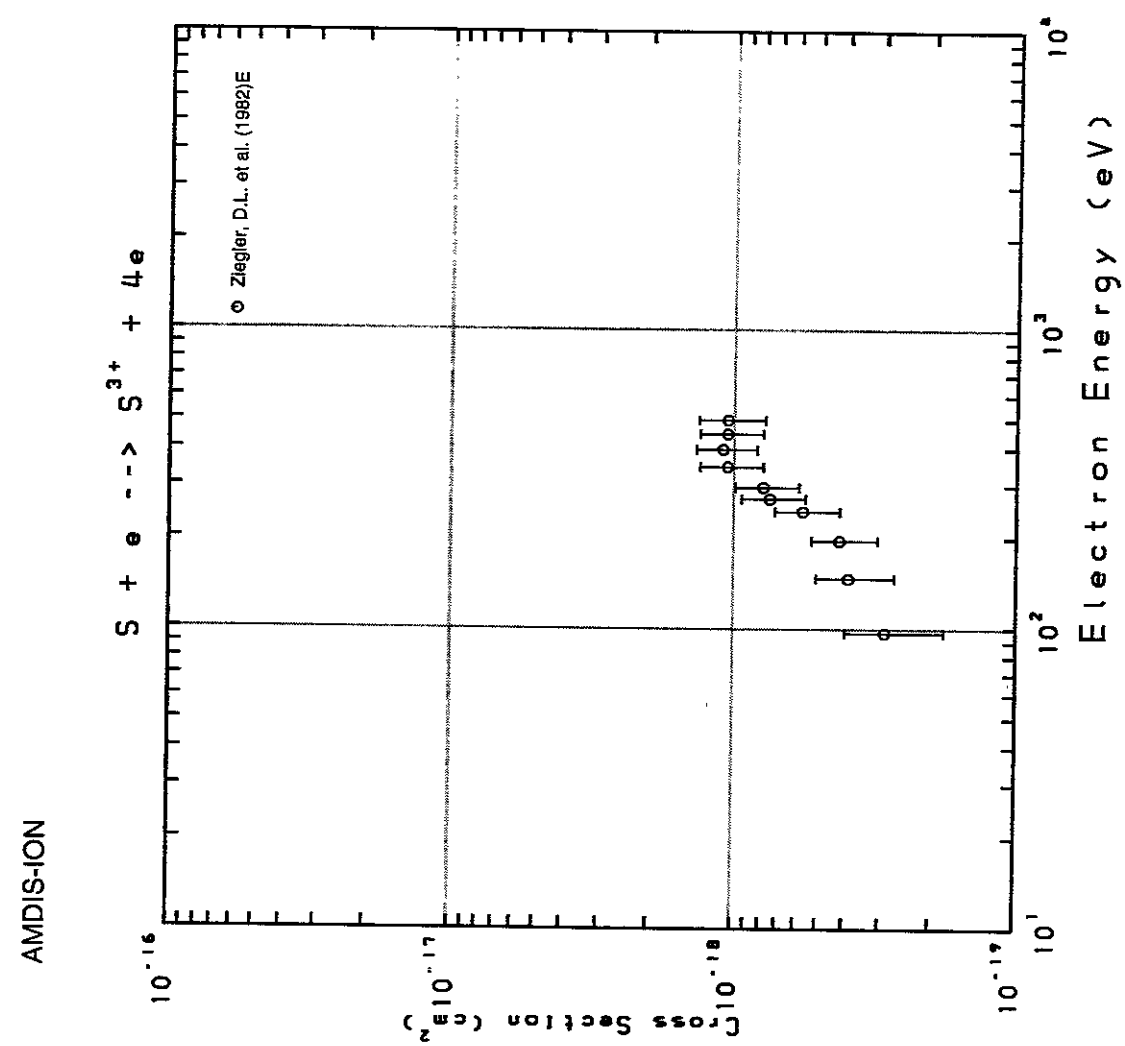

Fig. 114 S → S^{3+}

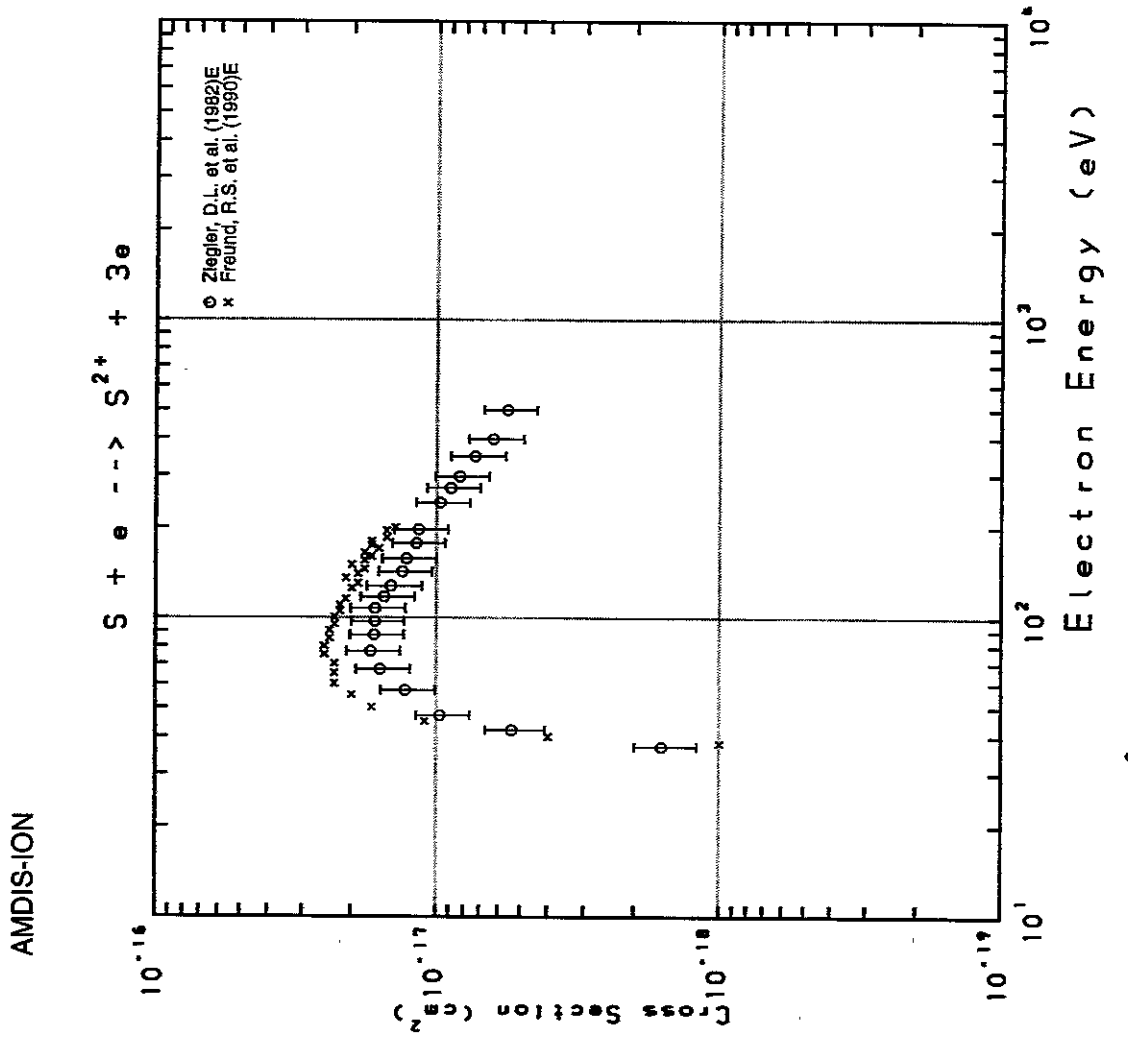

Fig. 113 S → S^{2+}

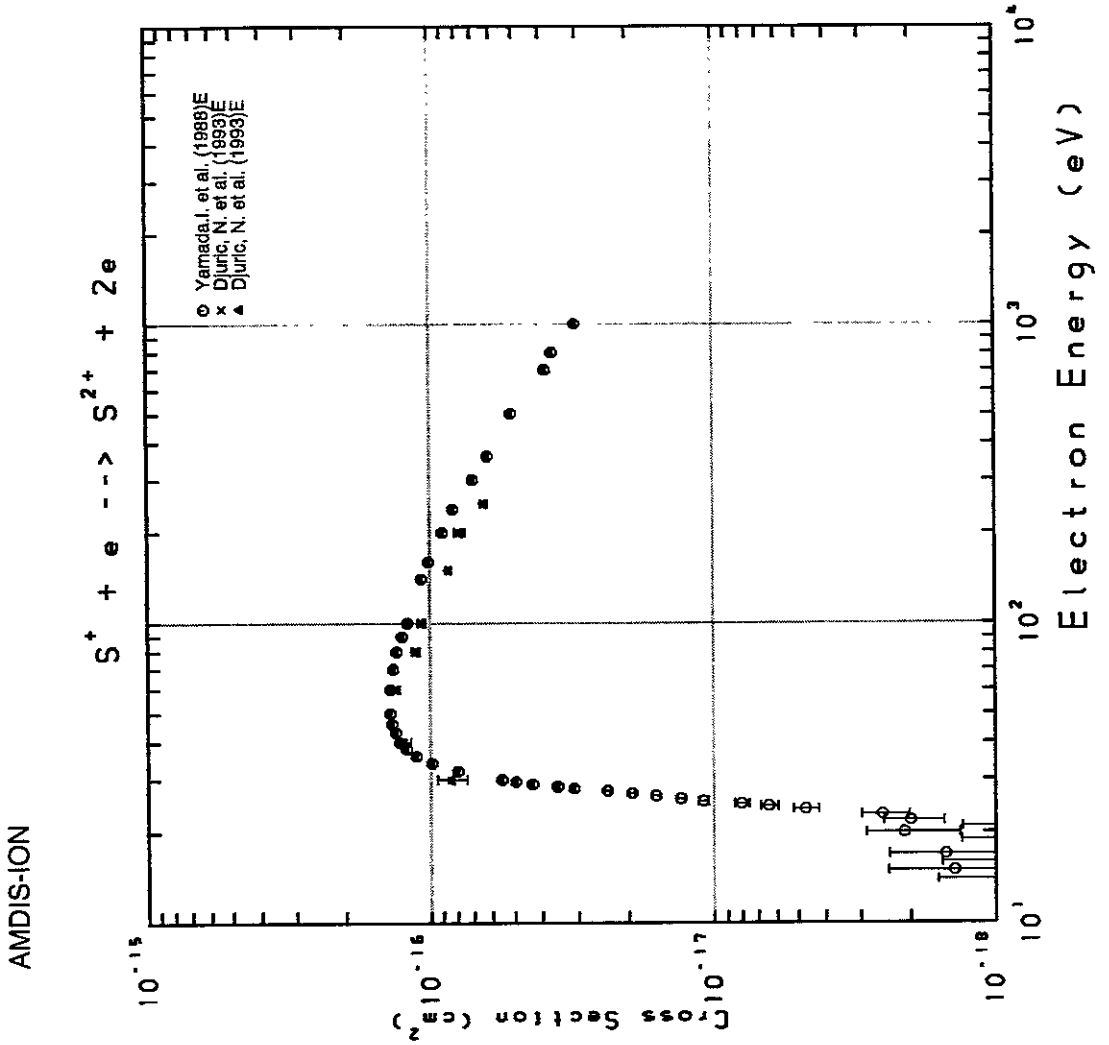

Fig. 115 $S \rightarrow S^{4+}$

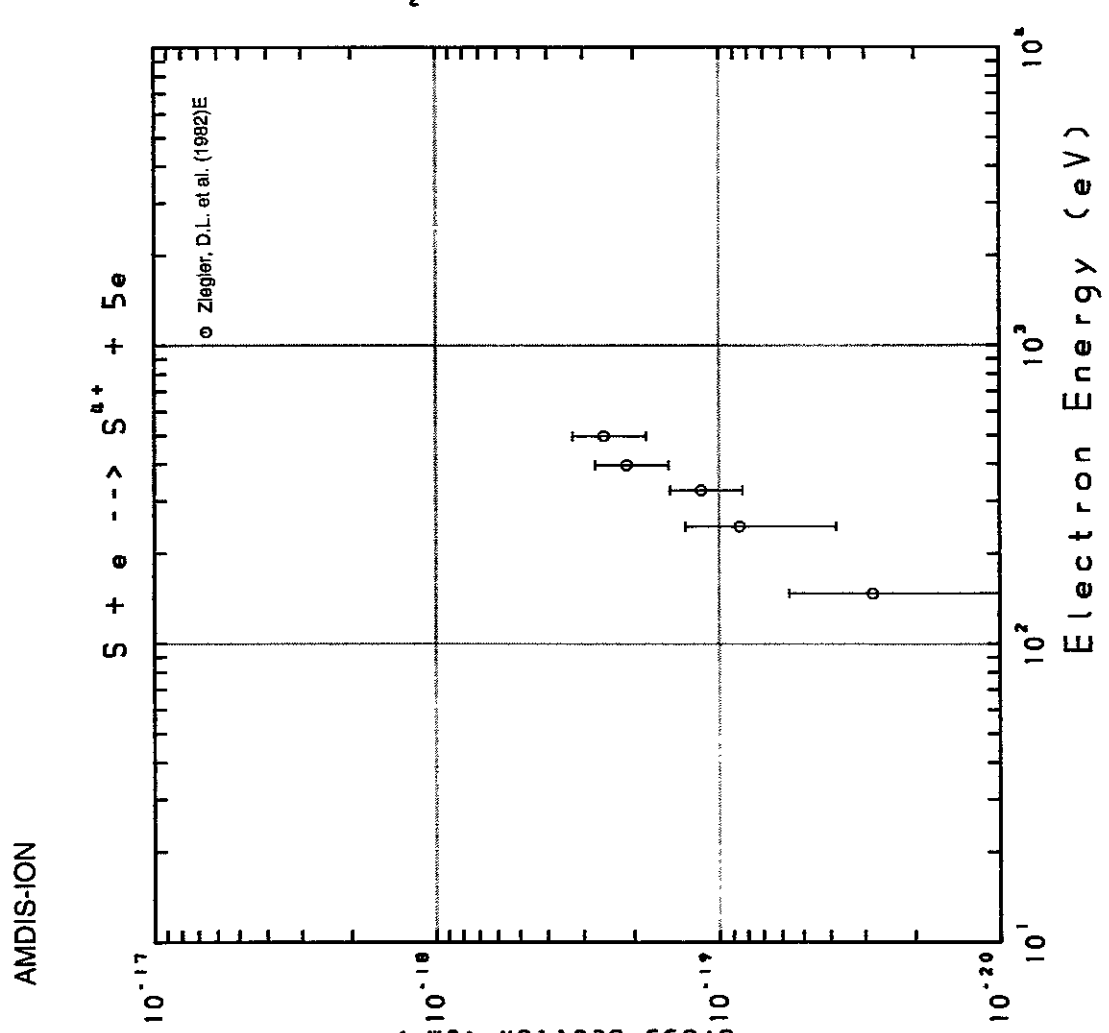

Fig. 116 $S^{+} \rightarrow S^{2+}$

AMDIS-ION

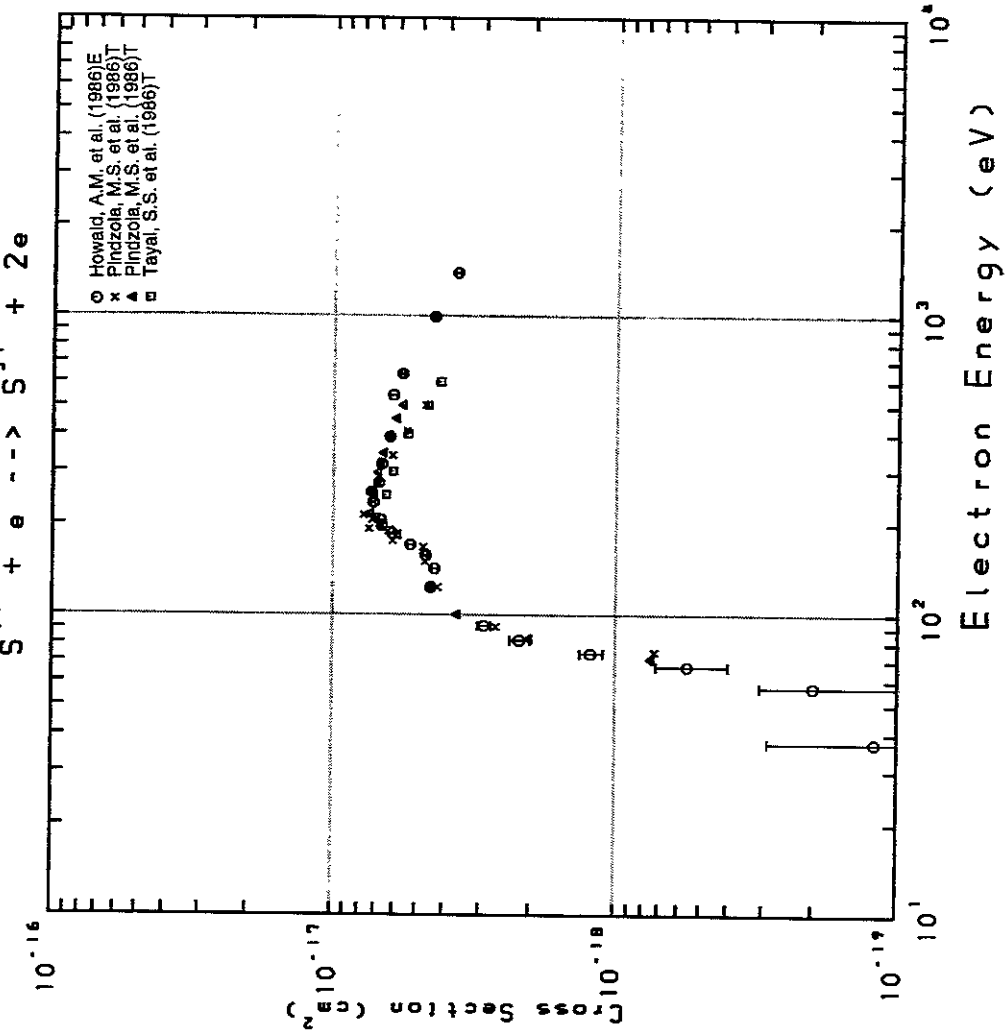

Fig. 118 $S^{4+} \rightarrow S^{5+}$

AMDIS-ION

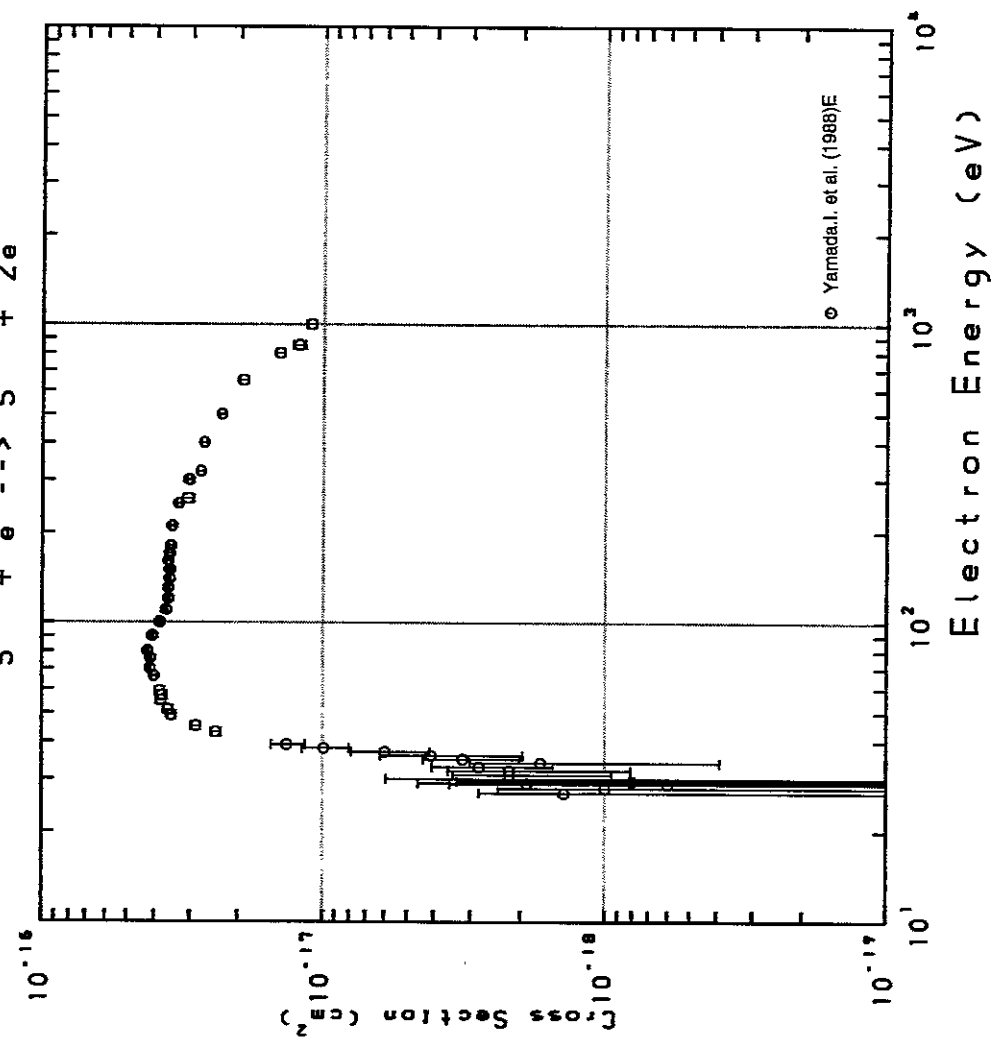

Fig. 117 $S^{2+} \rightarrow S^{3+}$

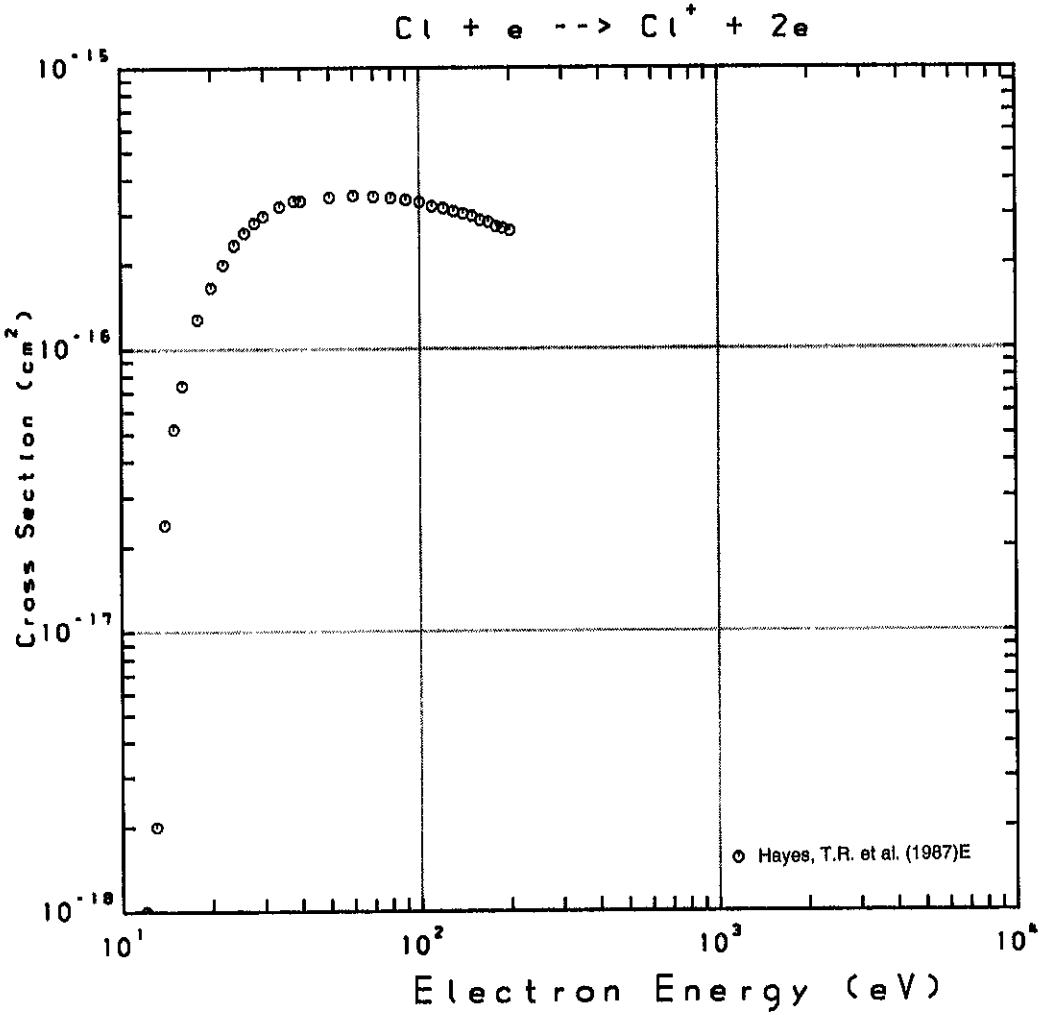

Fig. 119 $Cl \rightarrow Cl^{+}$

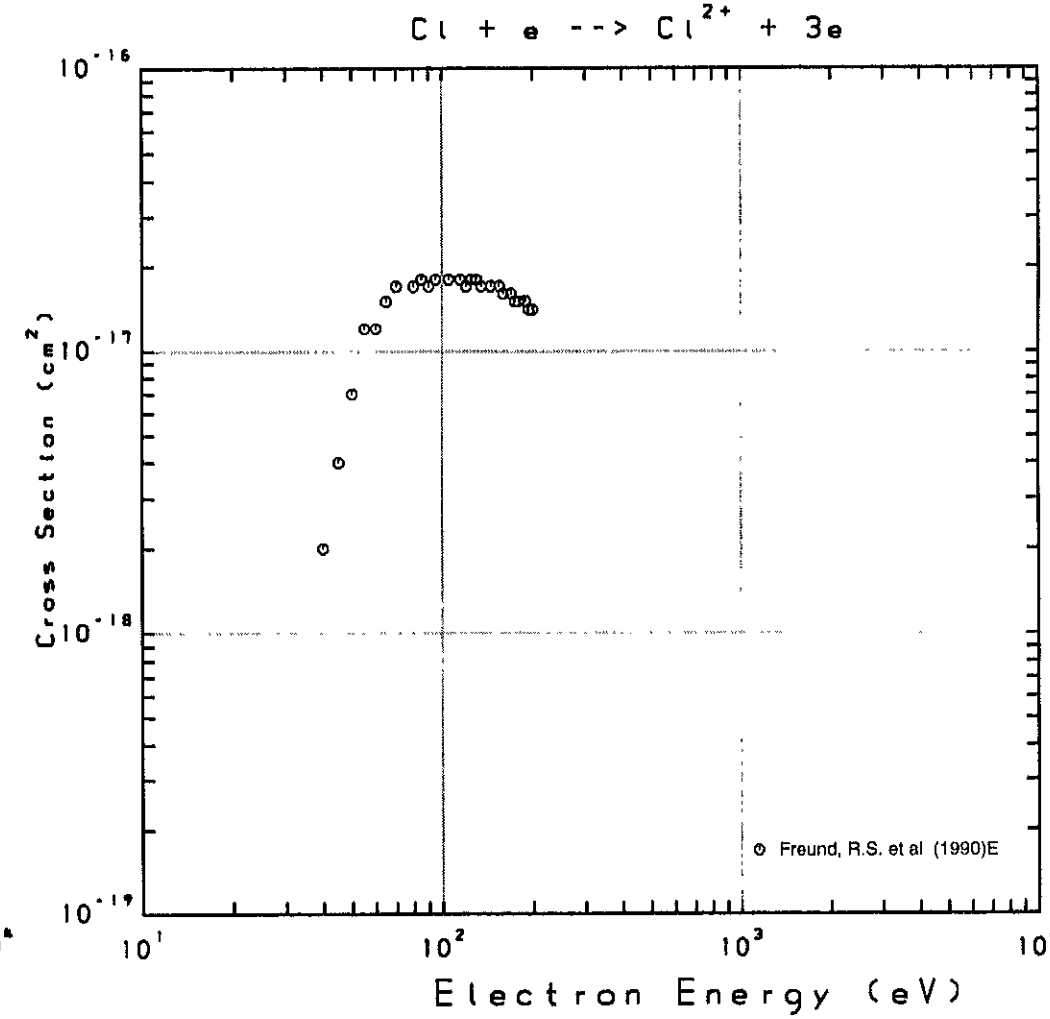

Fig. 120 $Cl \rightarrow Cl^{2+}$

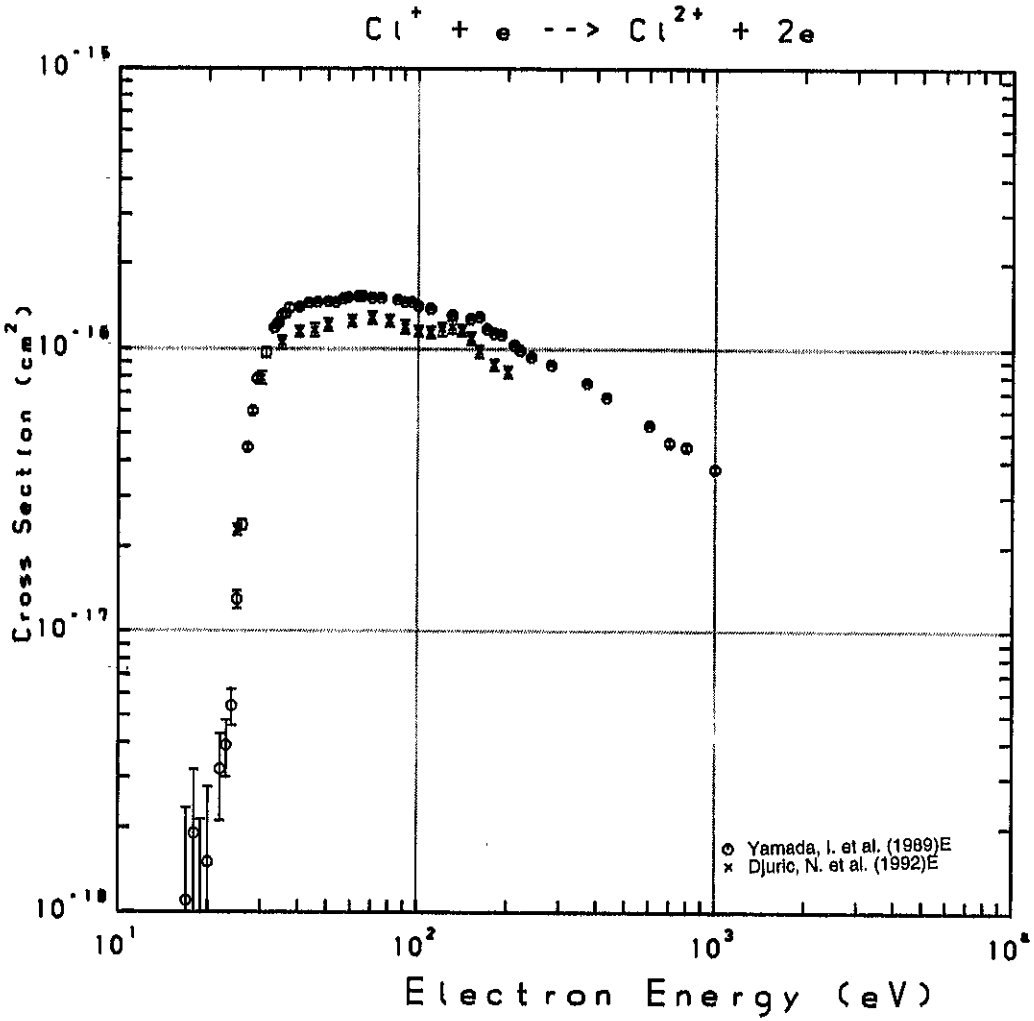

Fig. 121 $Cl^{+} \rightarrow Cl^{2+}$

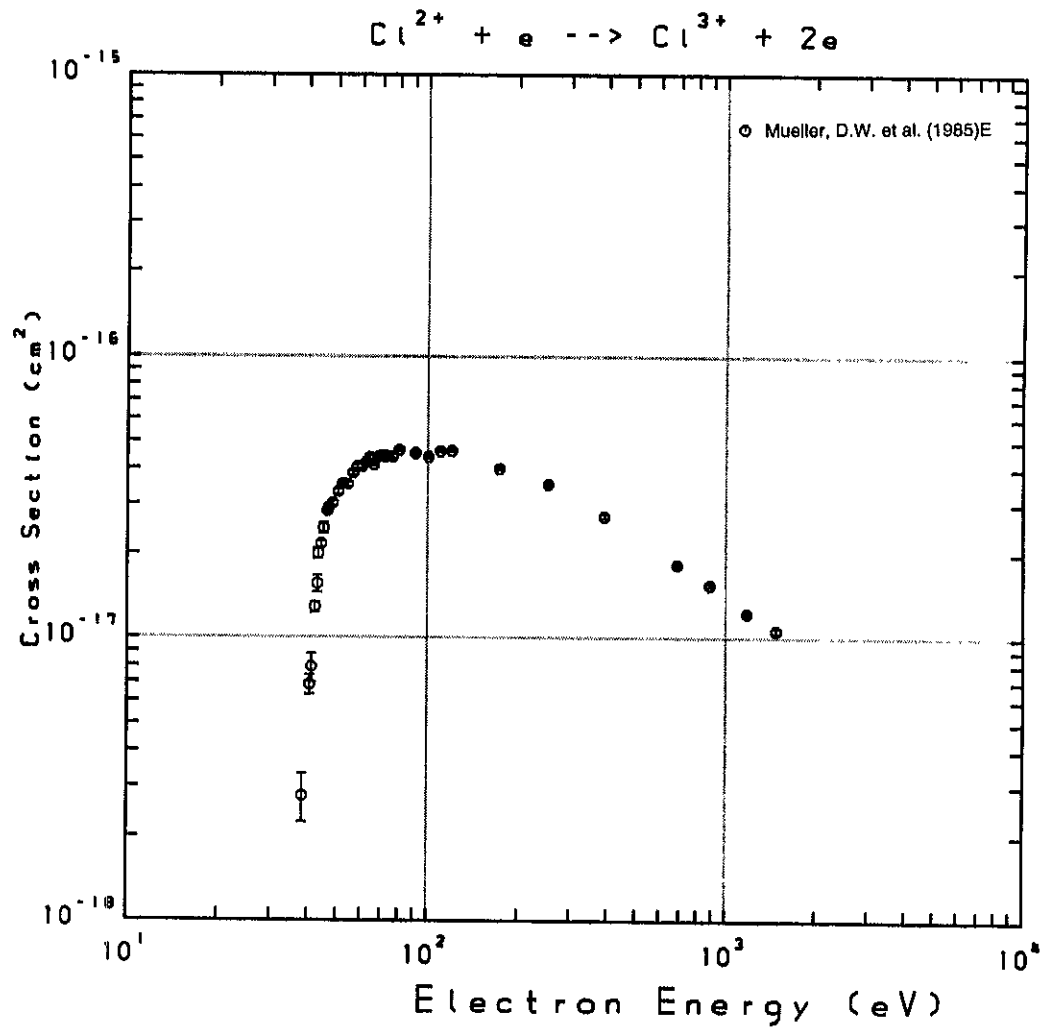

Fig. 122 $Cl^{2+} \rightarrow Cl^{3+}$

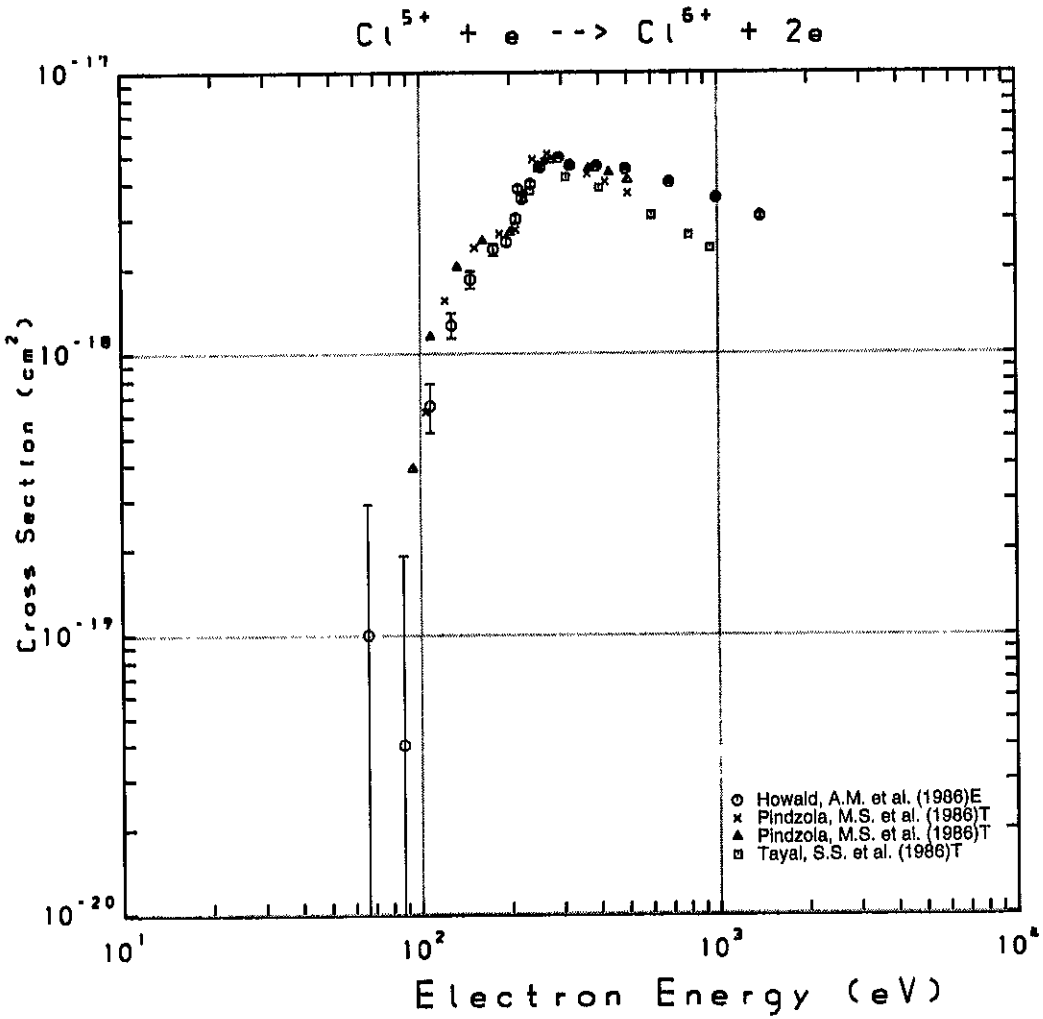

Fig. 123 $Cl^{5+} \rightarrow Cl^{6+}$

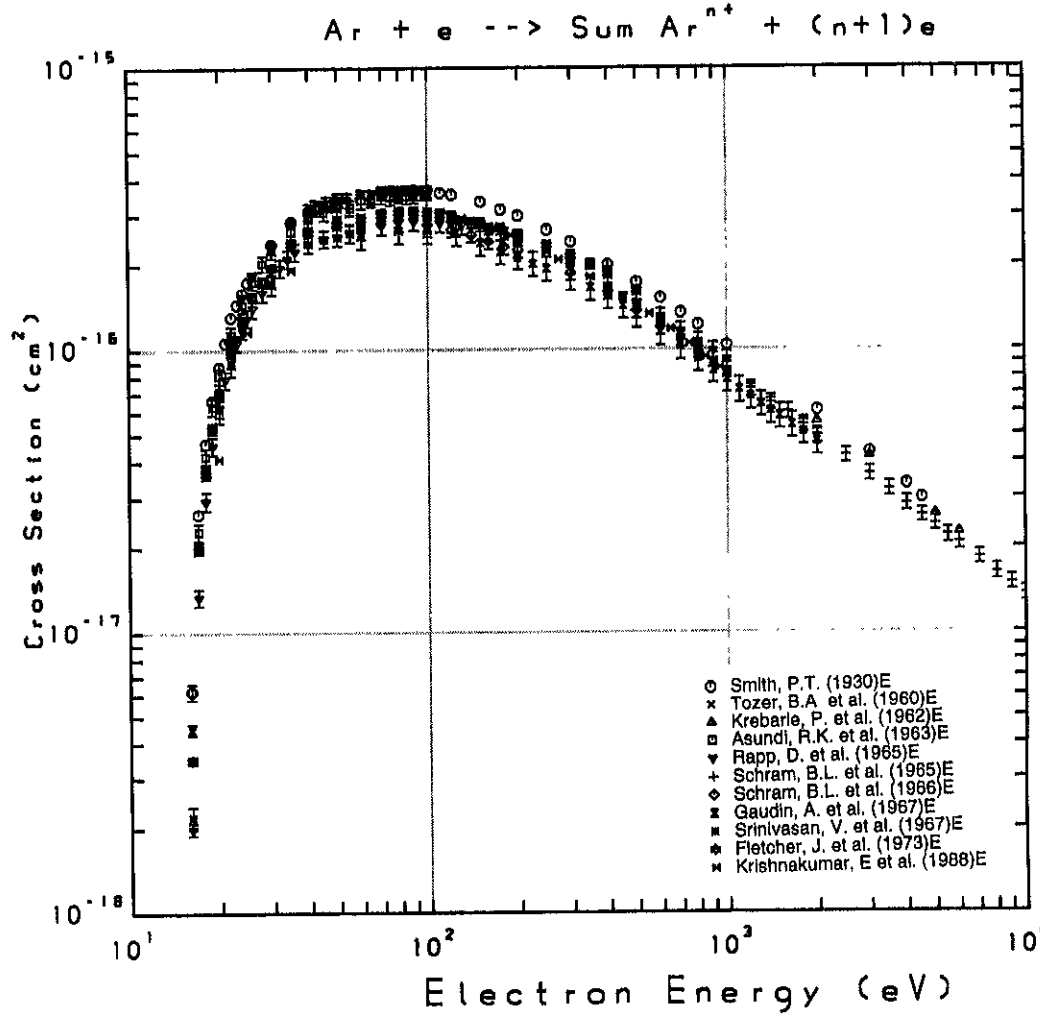

Fig. 124 $Ar \rightarrow \Sigma Ar^{n+}$

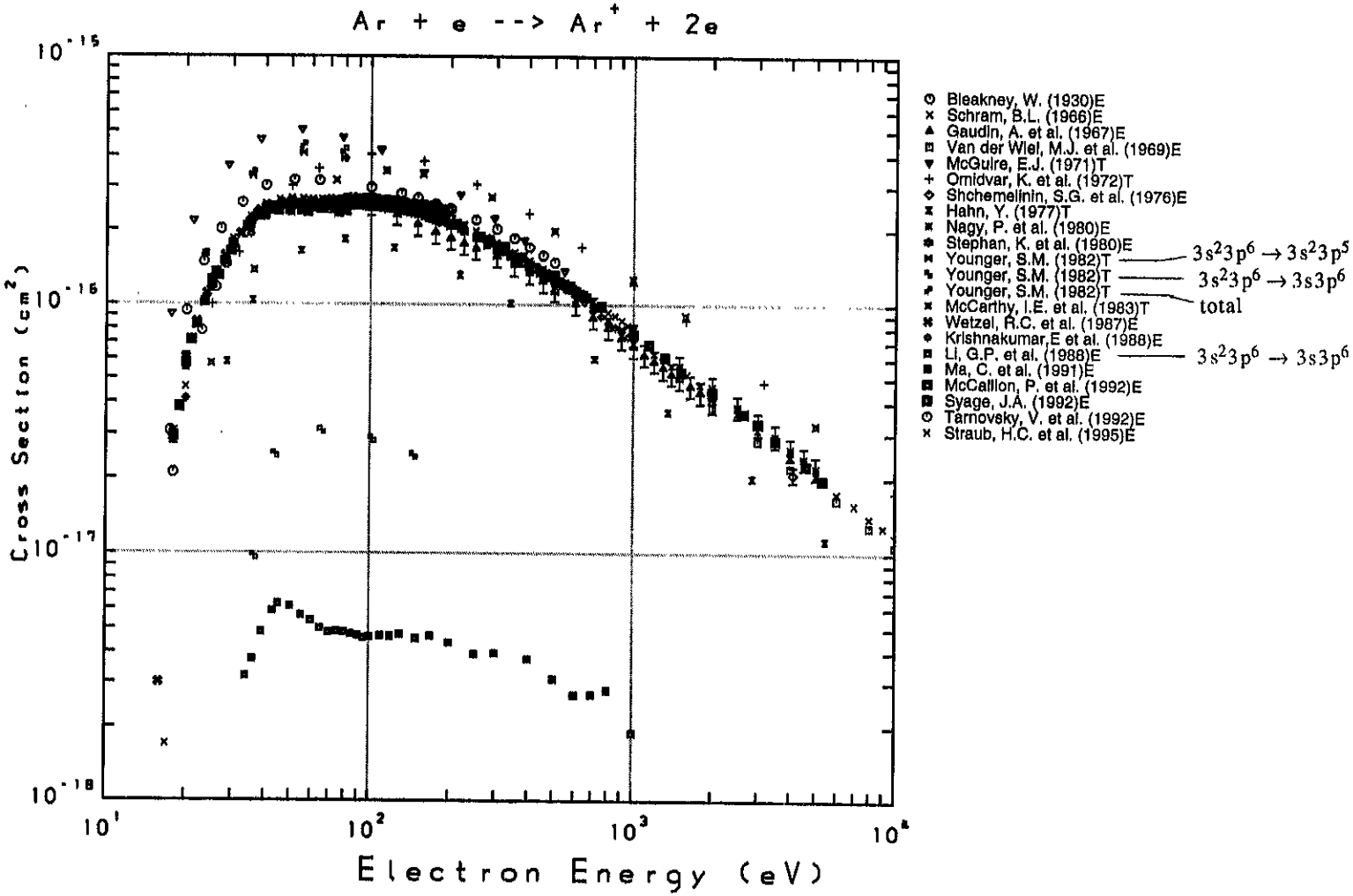

Fig. 125 $Ar \rightarrow Ar^+$

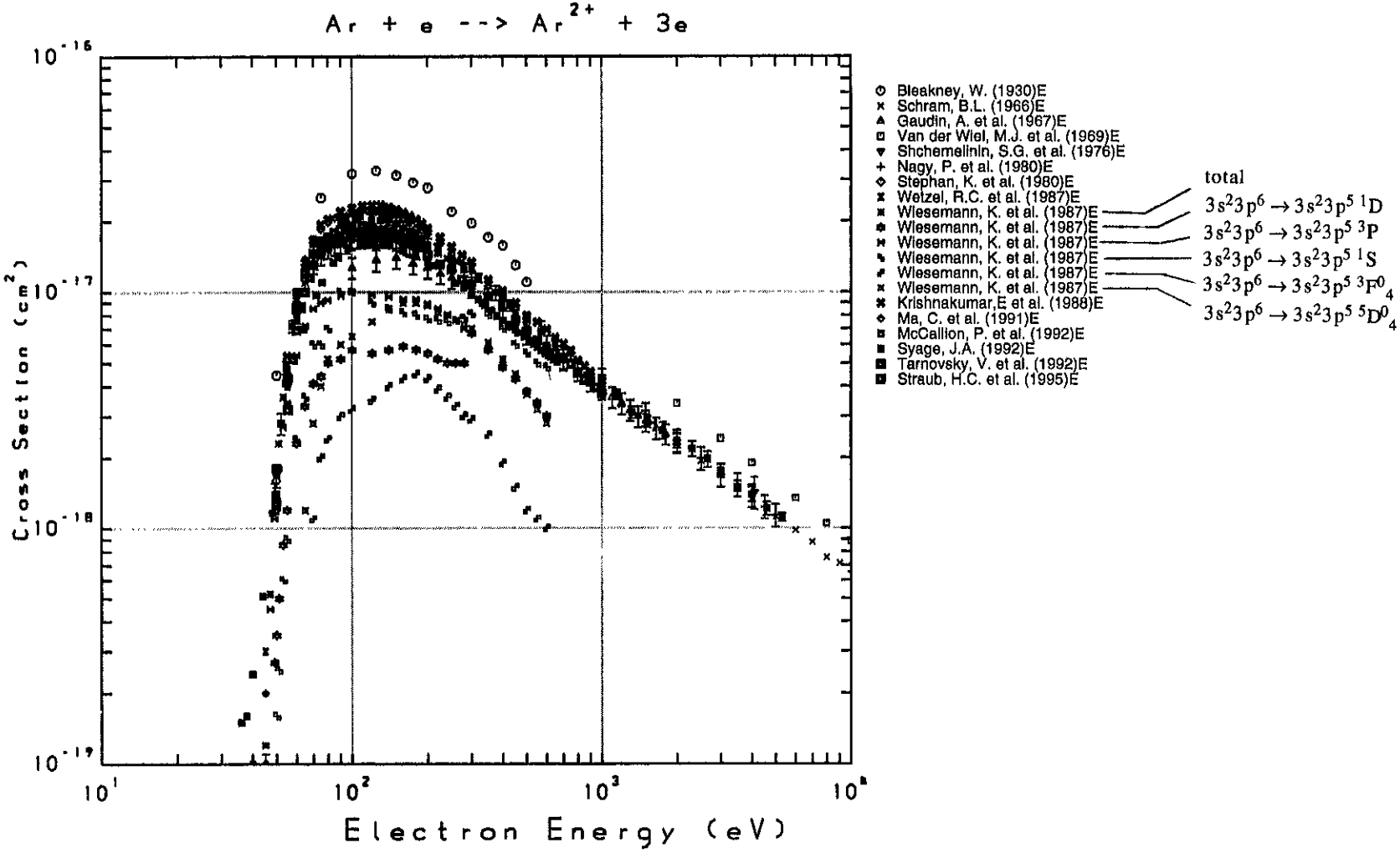

Fig. 126 Ar → Ar^{2+}

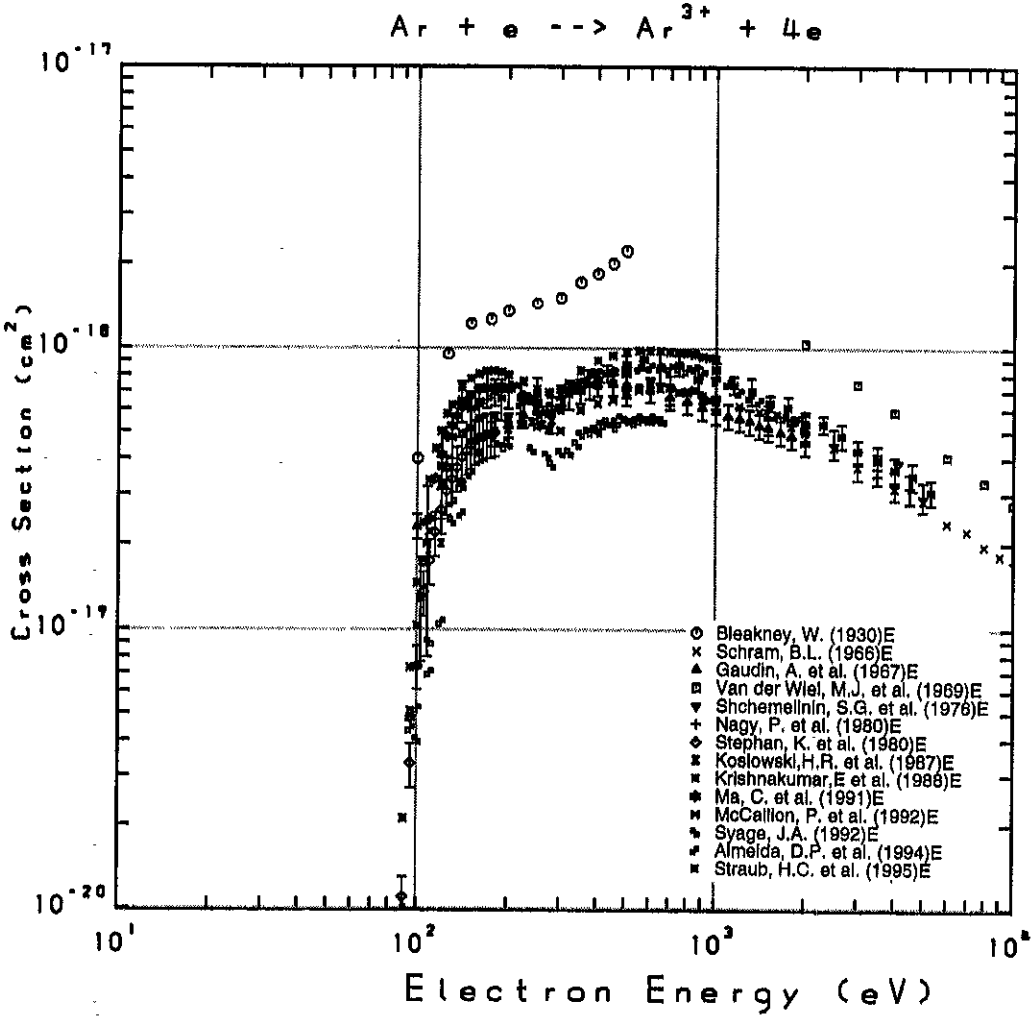

Fig. 127 Ar → Ar^{3+}

AMDIS-ION

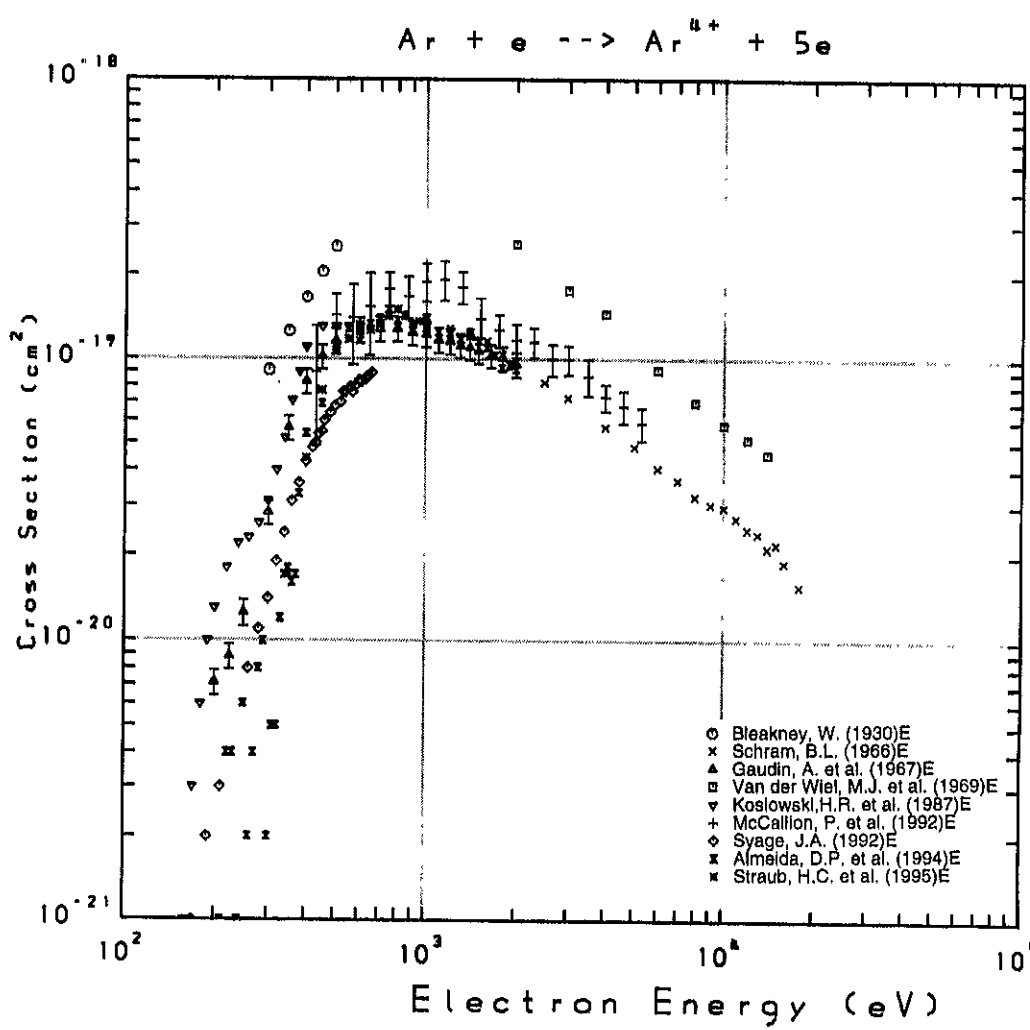

Fig. 128 Ar → Ar^{4+}

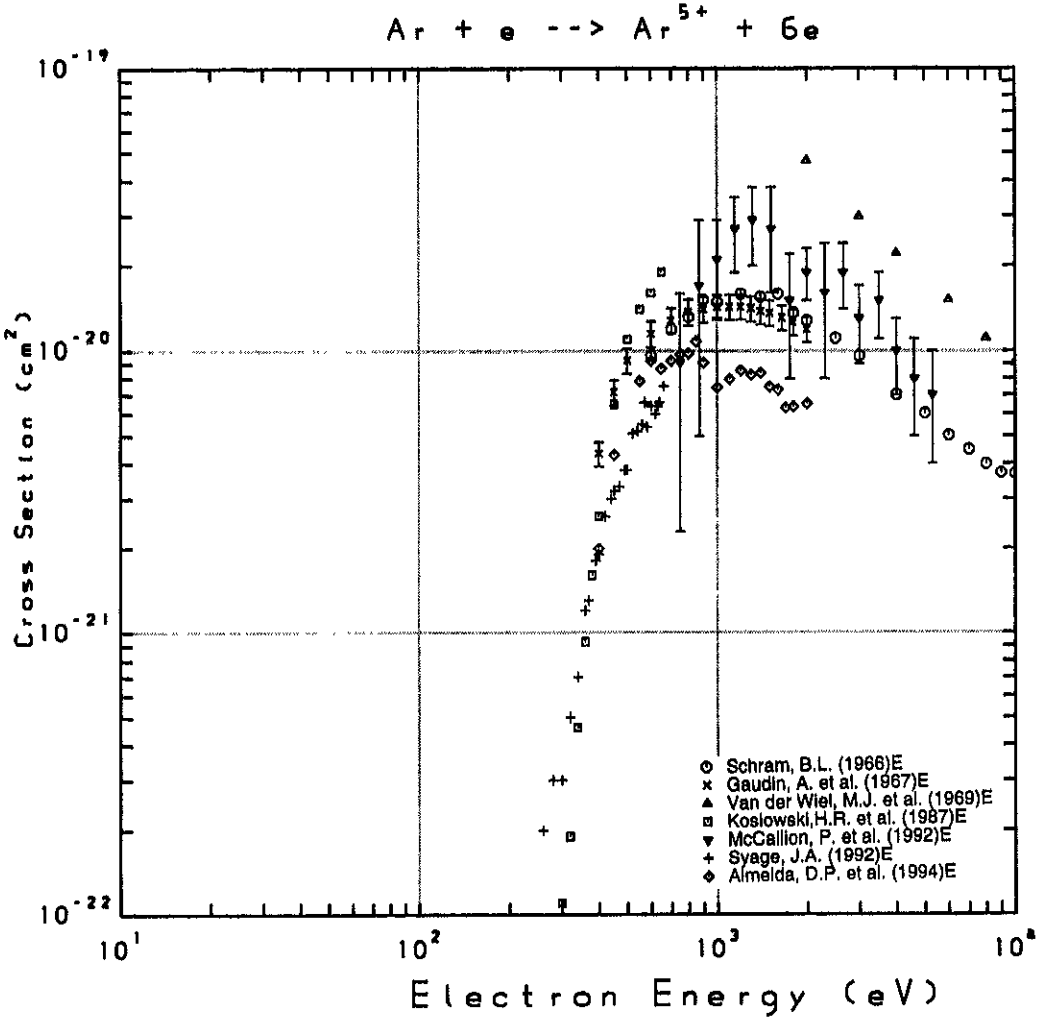

Fig. 129 Ar → Ar^{5+}

AMDIS-ION

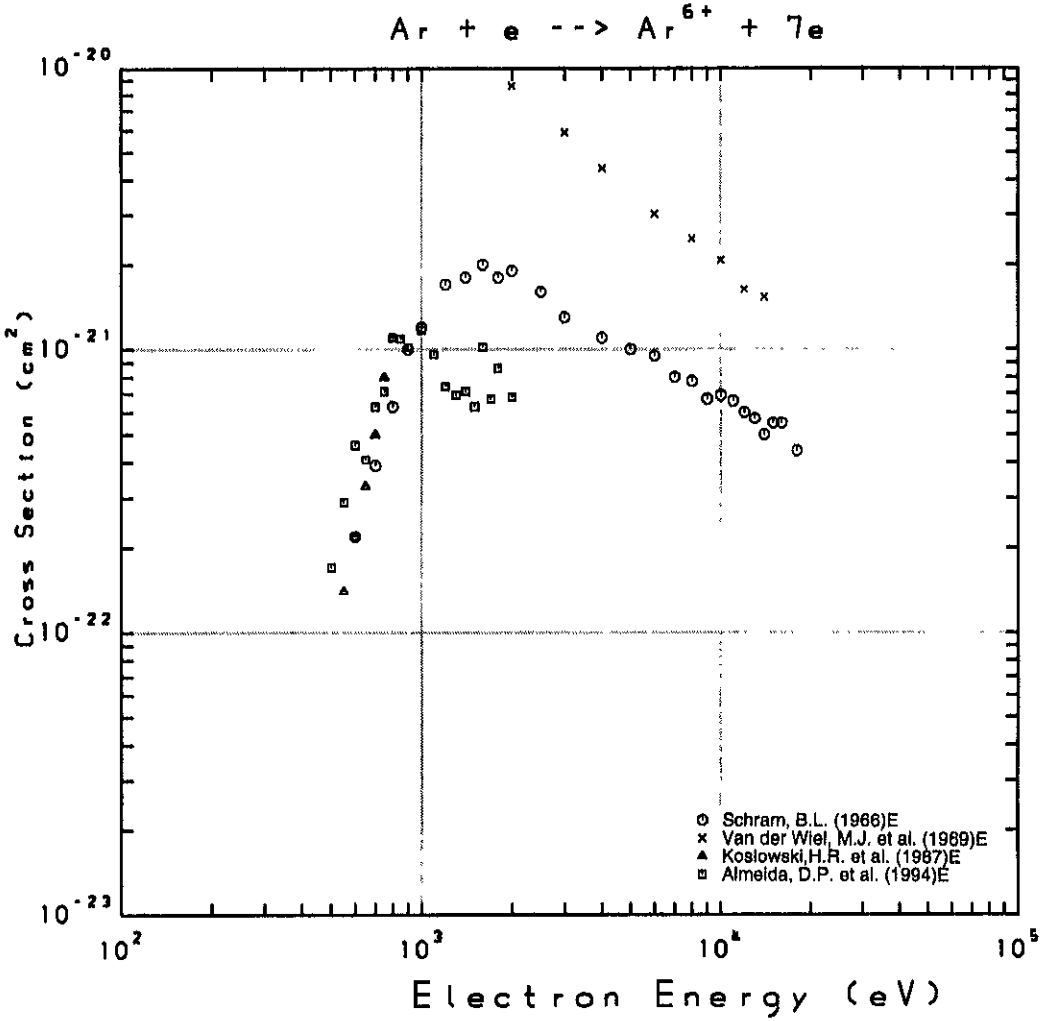

Fig. 130 Ar → Ar^{6+}

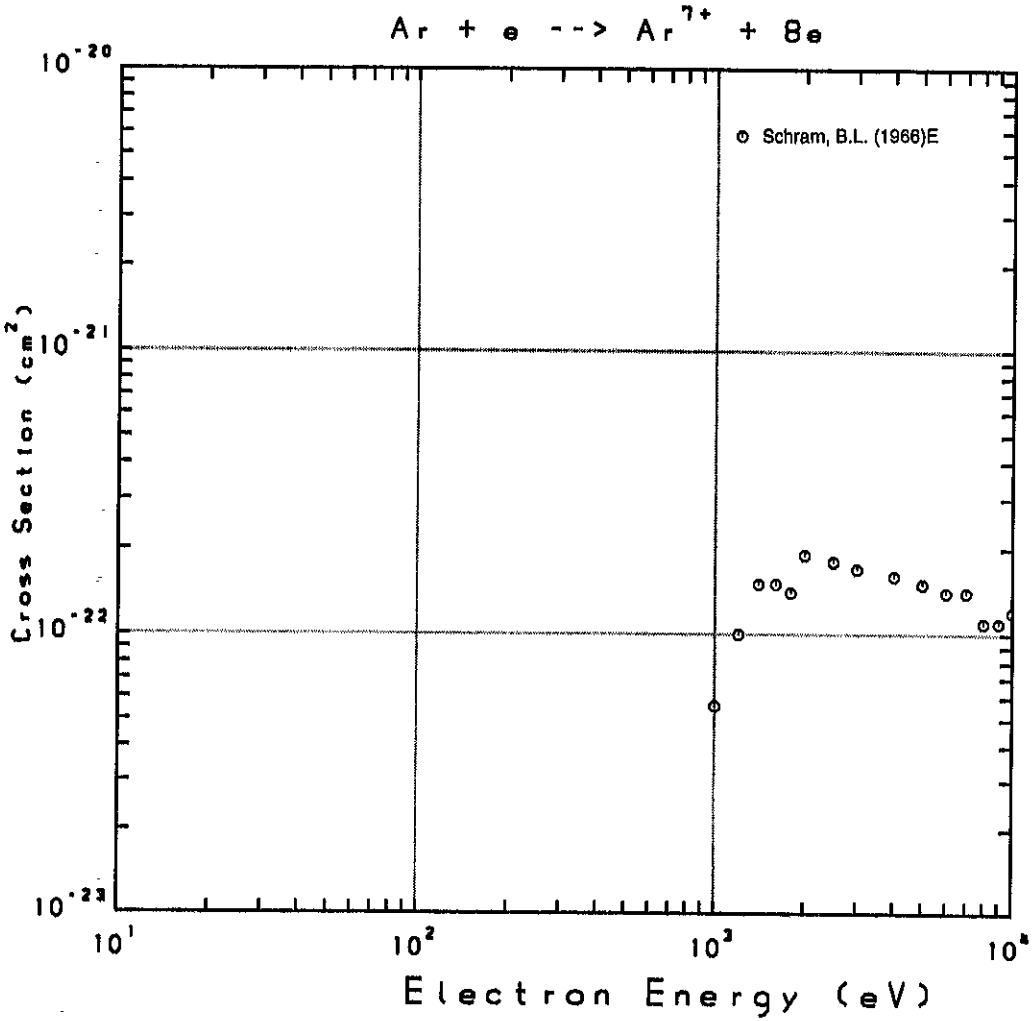

Fig. 131 Ar → Ar^{7+}

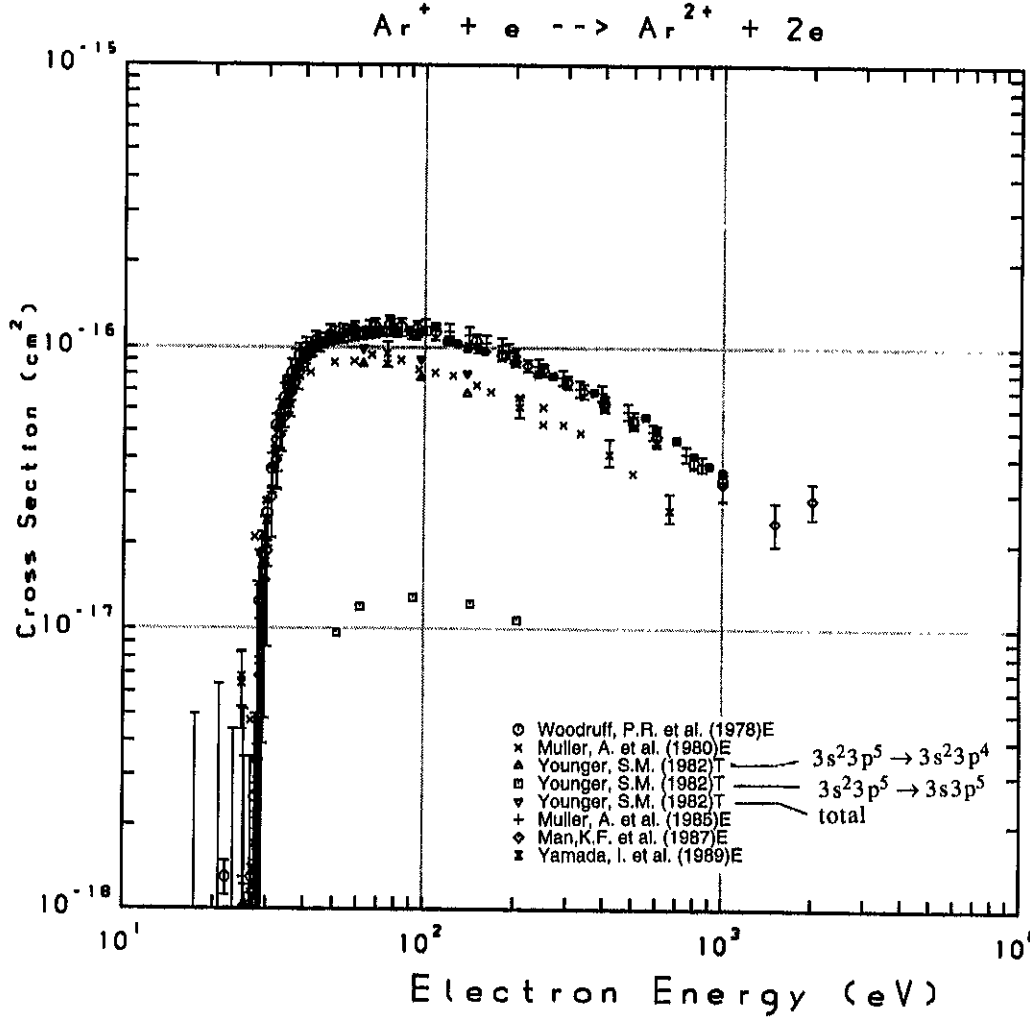

Fig. 132 Ar^{+} → Ar^{2+}

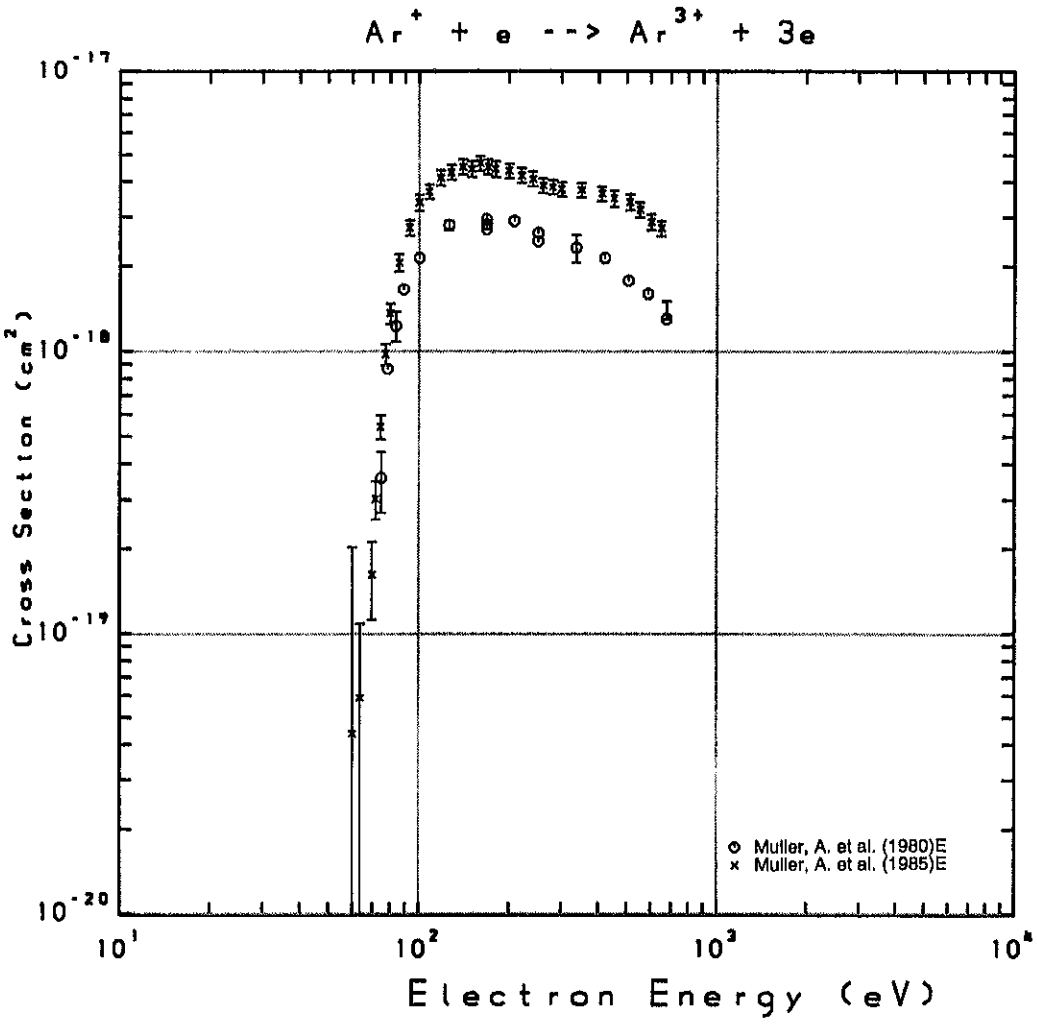

Fig. 133 $Ar^{+} \rightarrow Ar^{3+}$

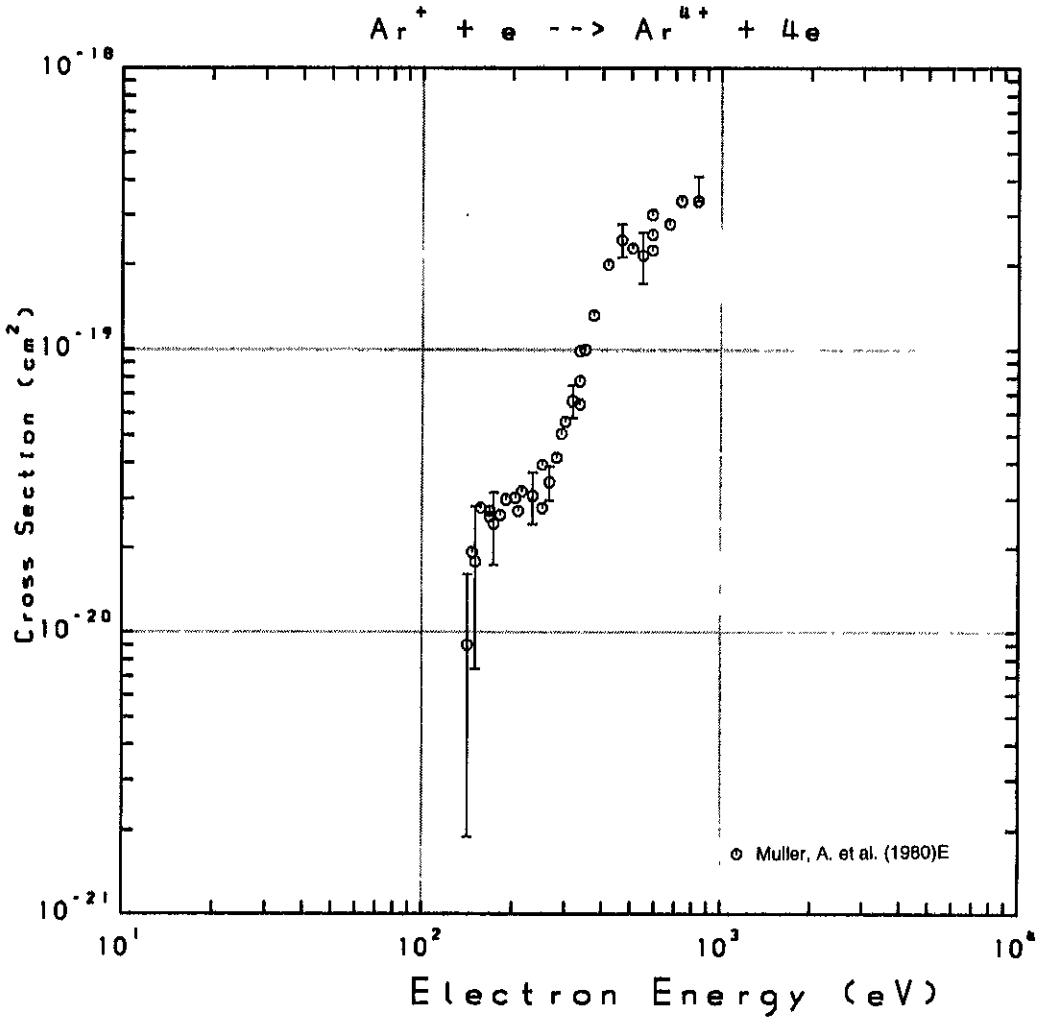

Fig. 134 $Ar^{+} \rightarrow Ar^{4+}$

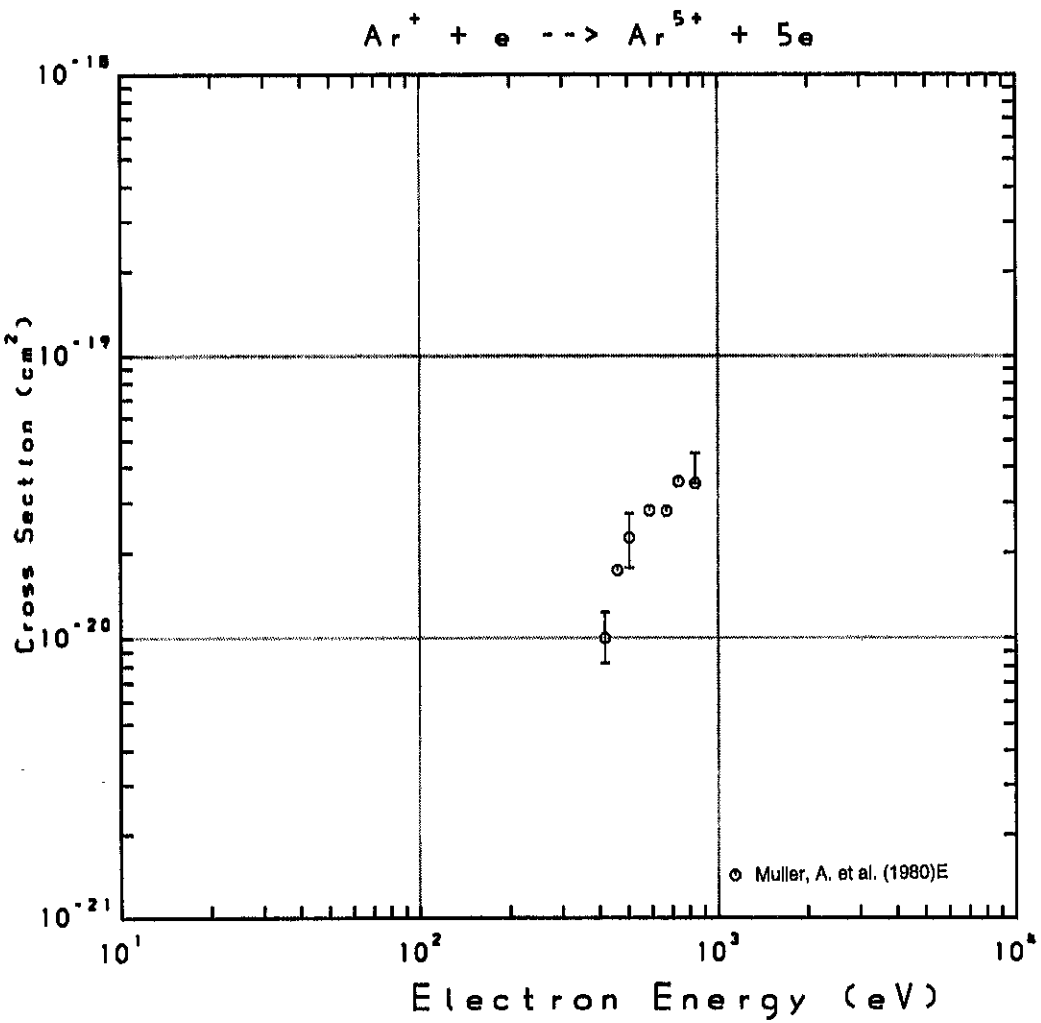

Fig. 135 $Ar^{+} \rightarrow Ar^{5+}$

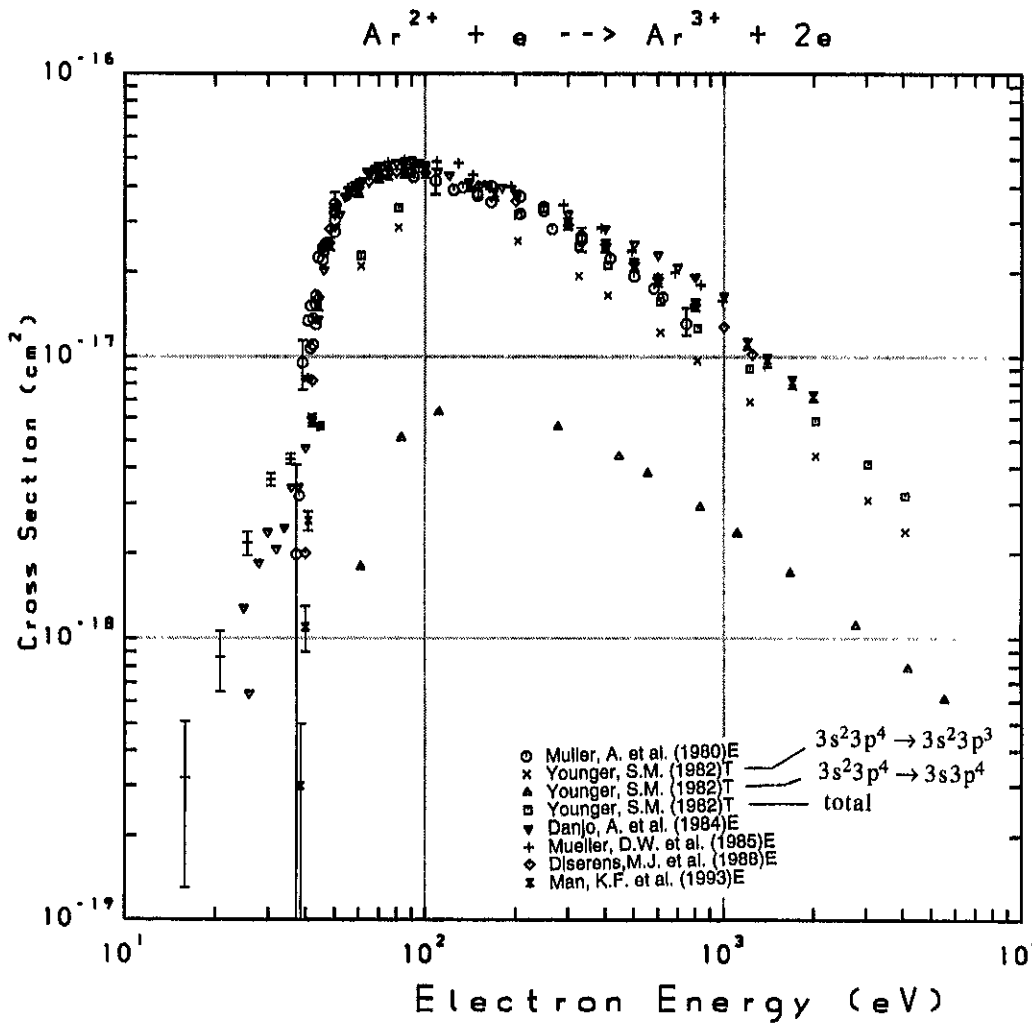

Fig. 136 $Ar^{2+} \rightarrow Ar^{3+}$

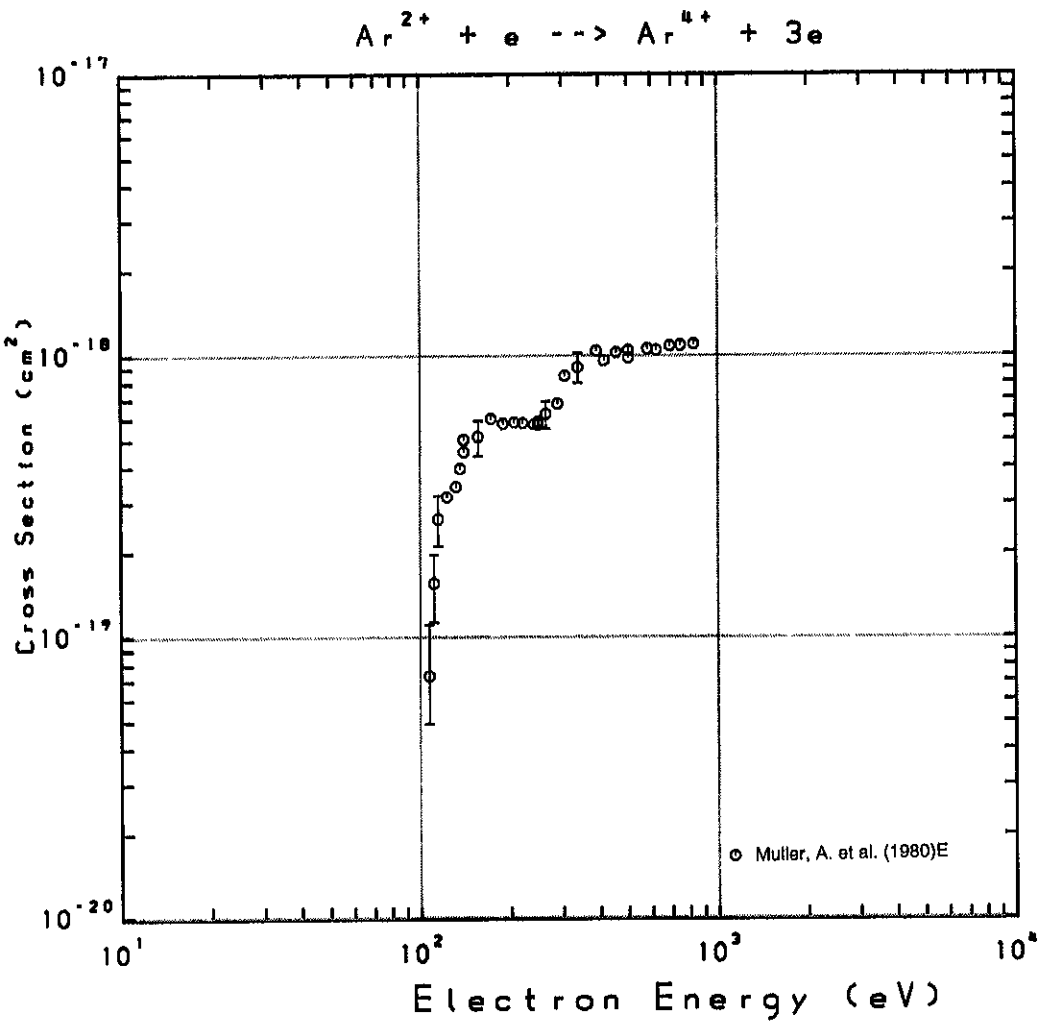

Fig. 137 $Ar^{2+} \rightarrow Ar^{4+}$

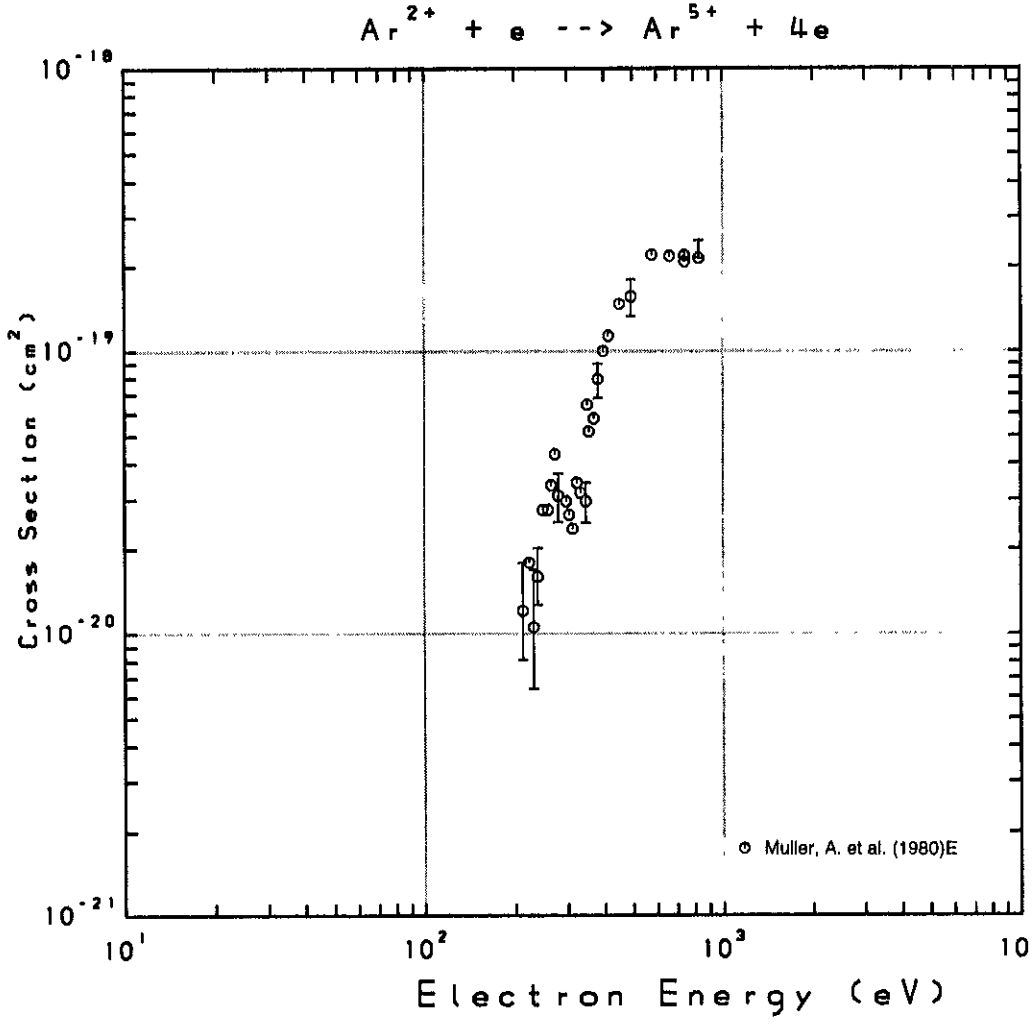

Fig. 138 $Ar^{2+} \rightarrow Ar^{5+}$

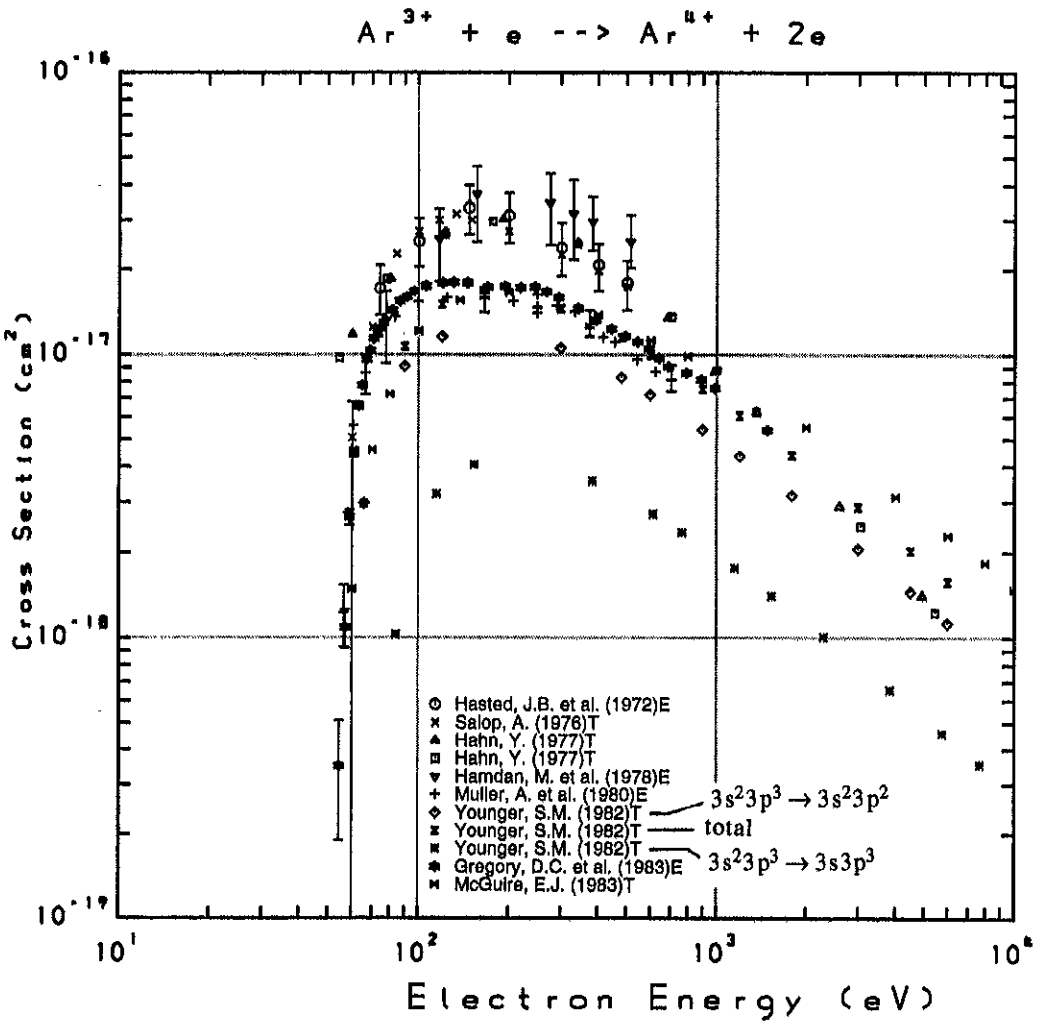

Fig. 139 $Ar^{3+} \rightarrow Ar^{4+}$

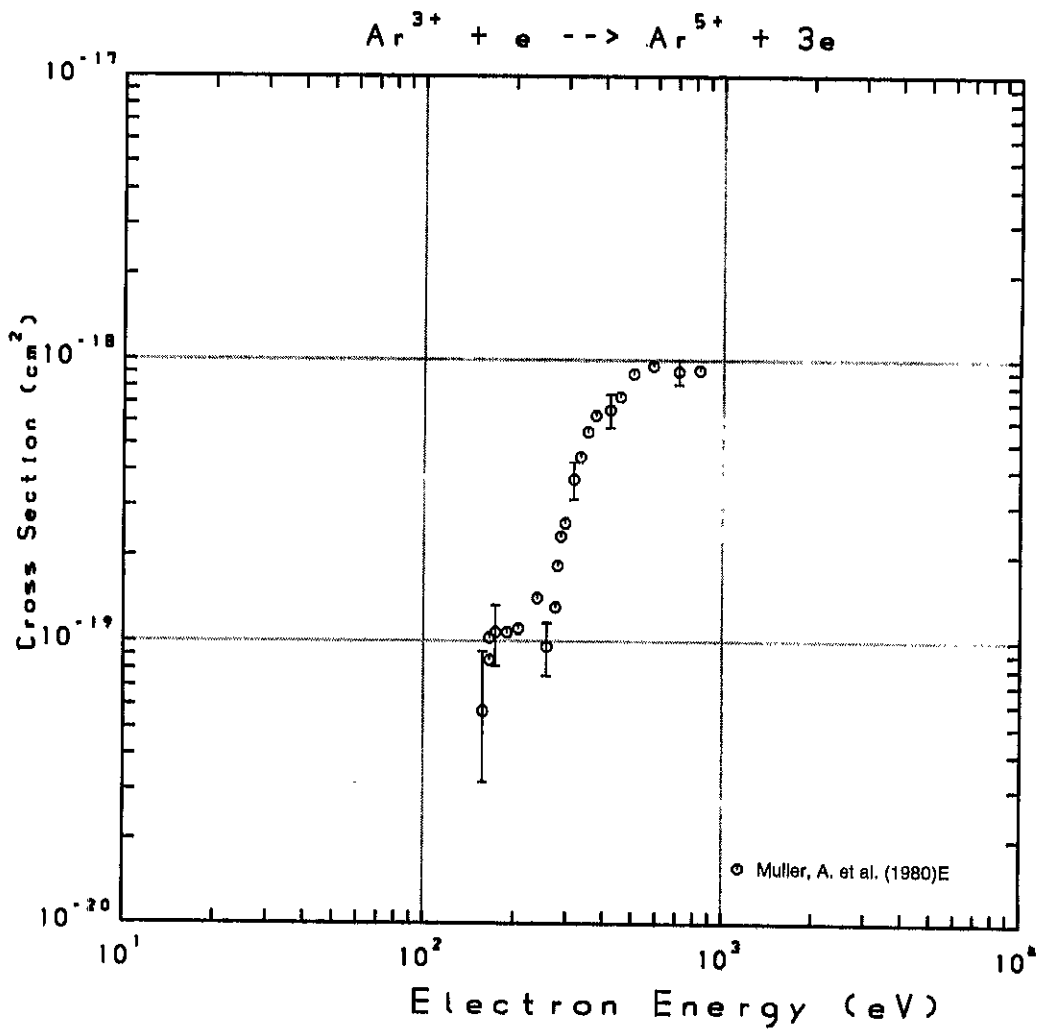

Fig. 140 $Ar^{3+} \rightarrow Ar^{5+}$

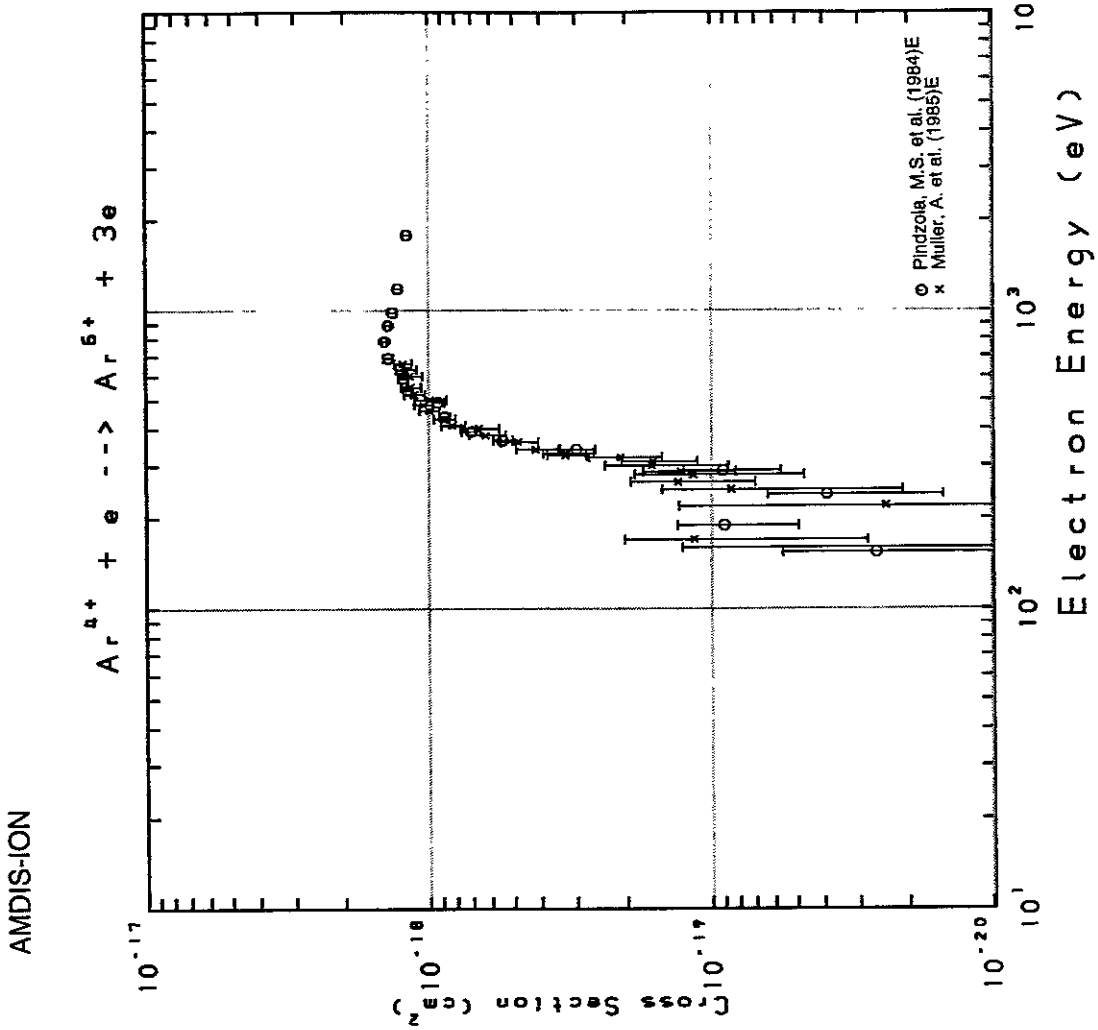

Fig. 141 $Ar^{4+} \rightarrow Ar^{5+}$

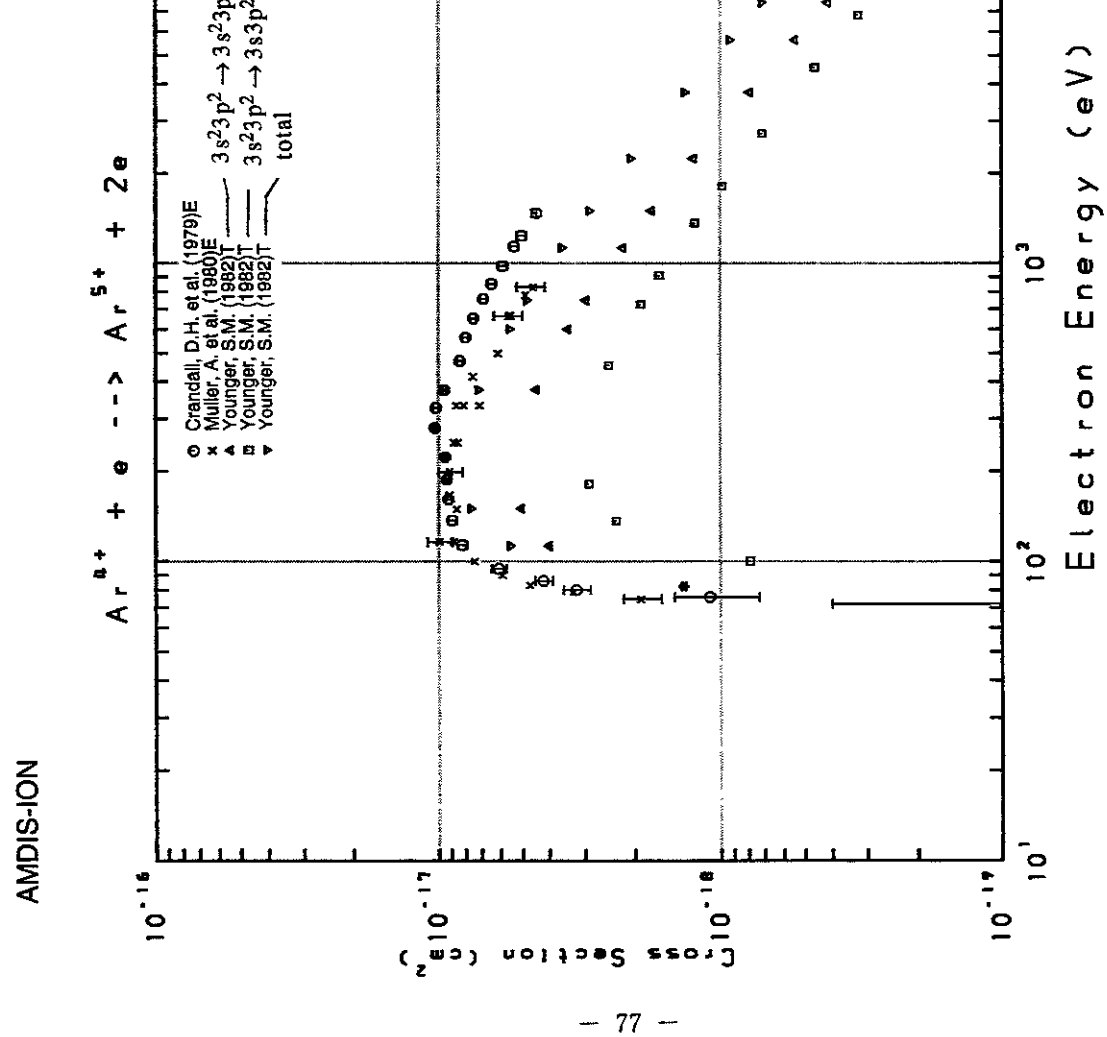

Fig. 142 $Ar^{4+} \rightarrow Ar^{6+}$

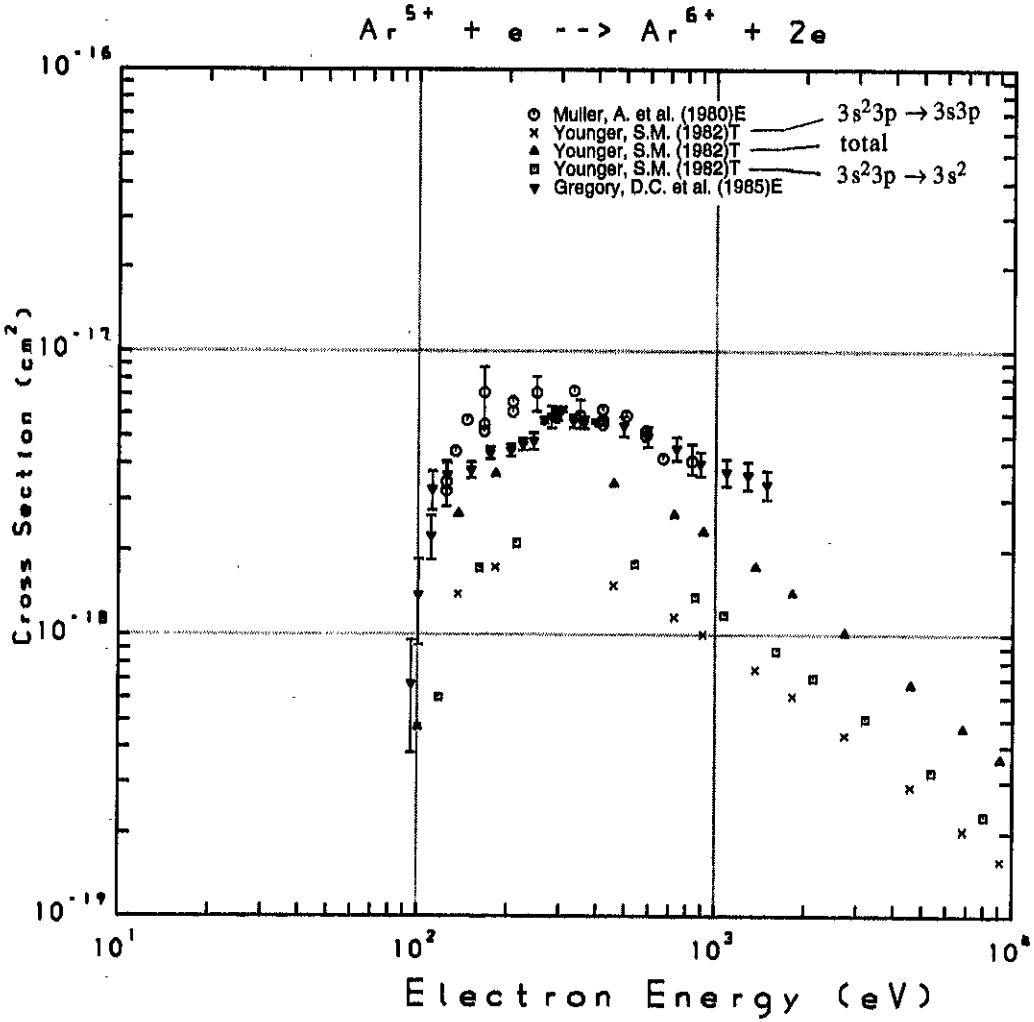

Fig. 143 $Ar^{5+} \rightarrow Ar^{6+}$

AMDIS-ION

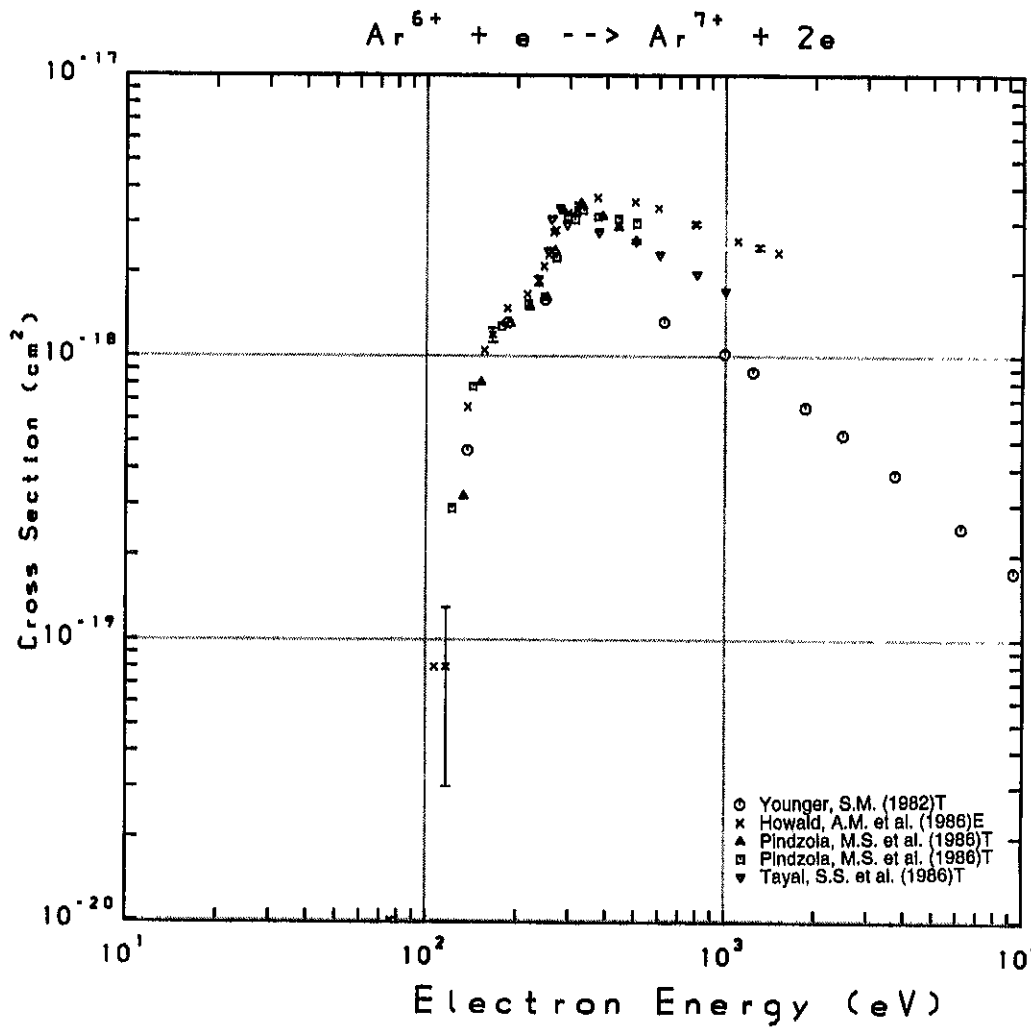

Fig. 144 $Ar^{6+} \rightarrow Ar^{7+}$

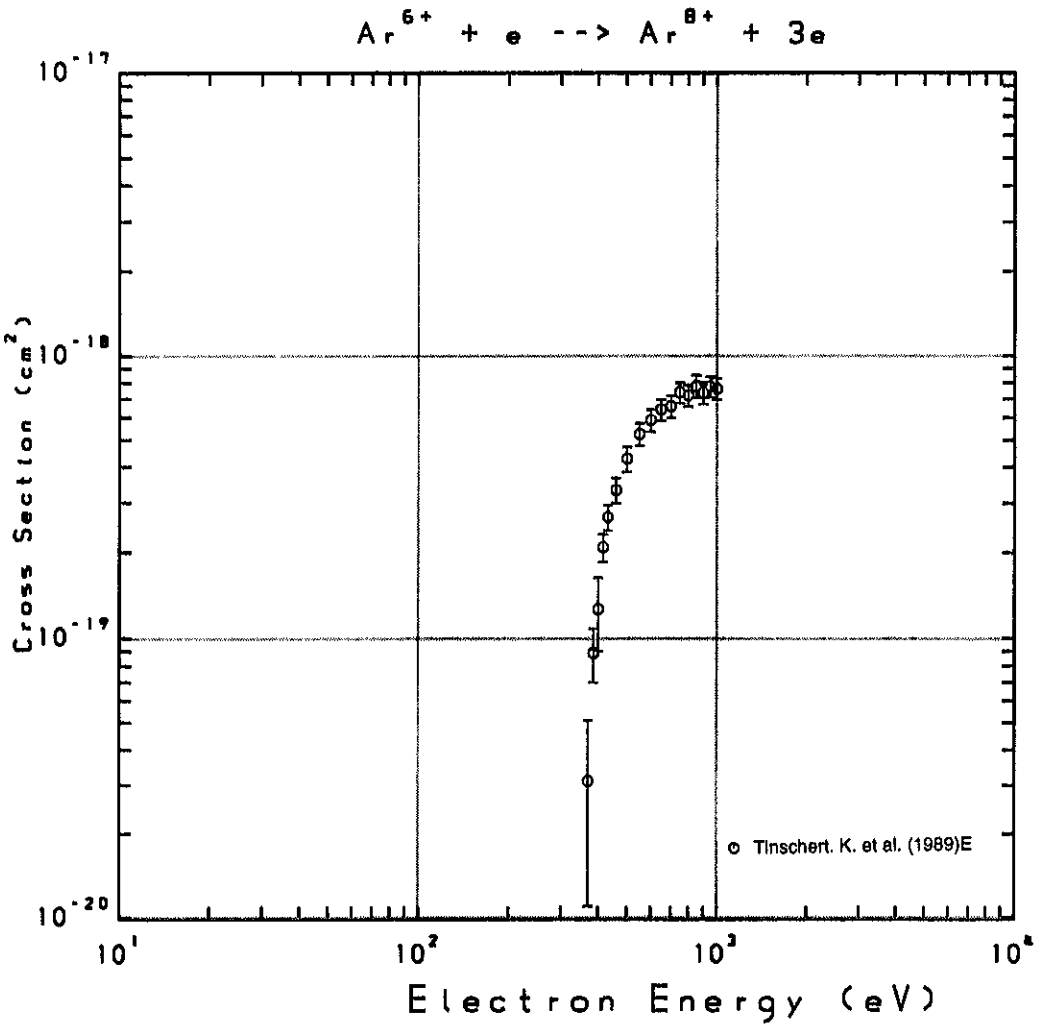

Fig. 145 $Ar^{6+} \rightarrow Ar^{8+}$

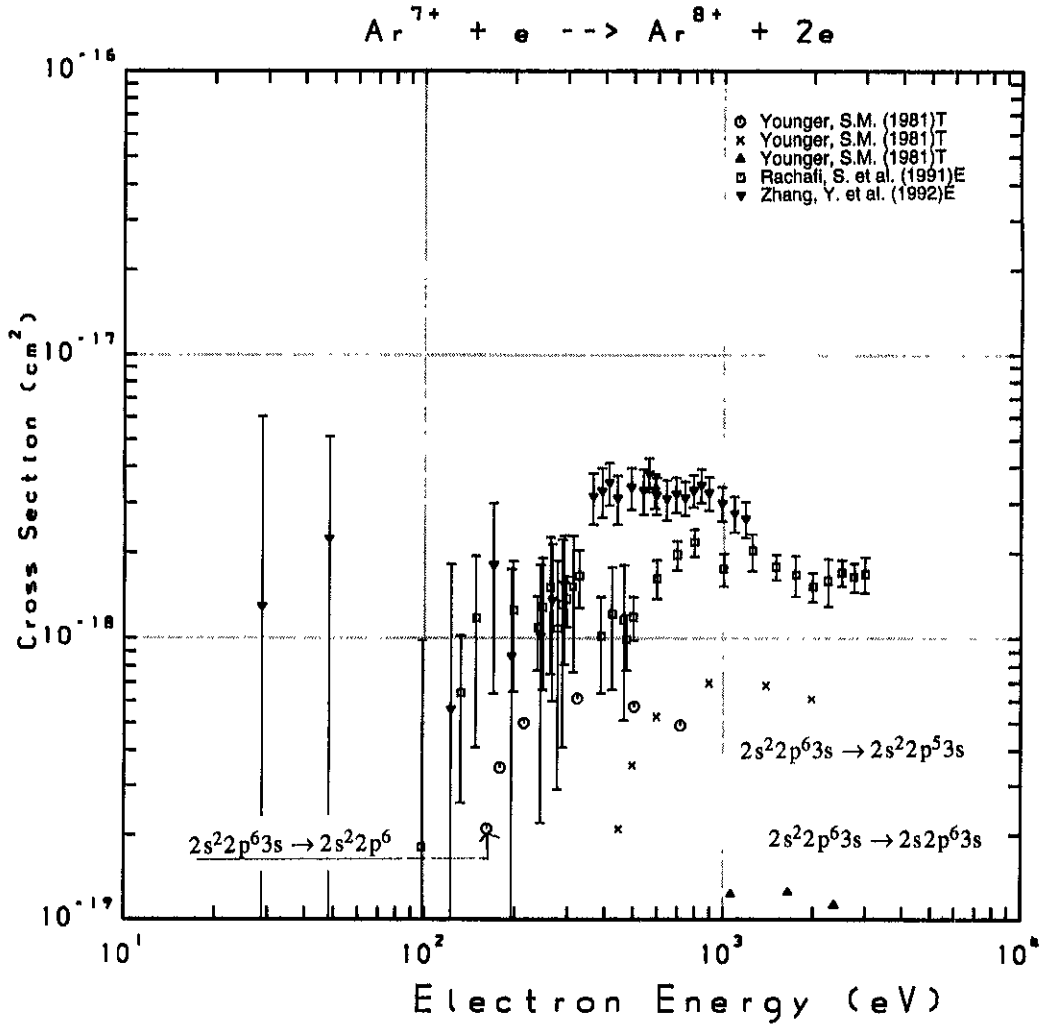

Fig. 146 $Ar^{7+} \rightarrow Ar^{8+}$

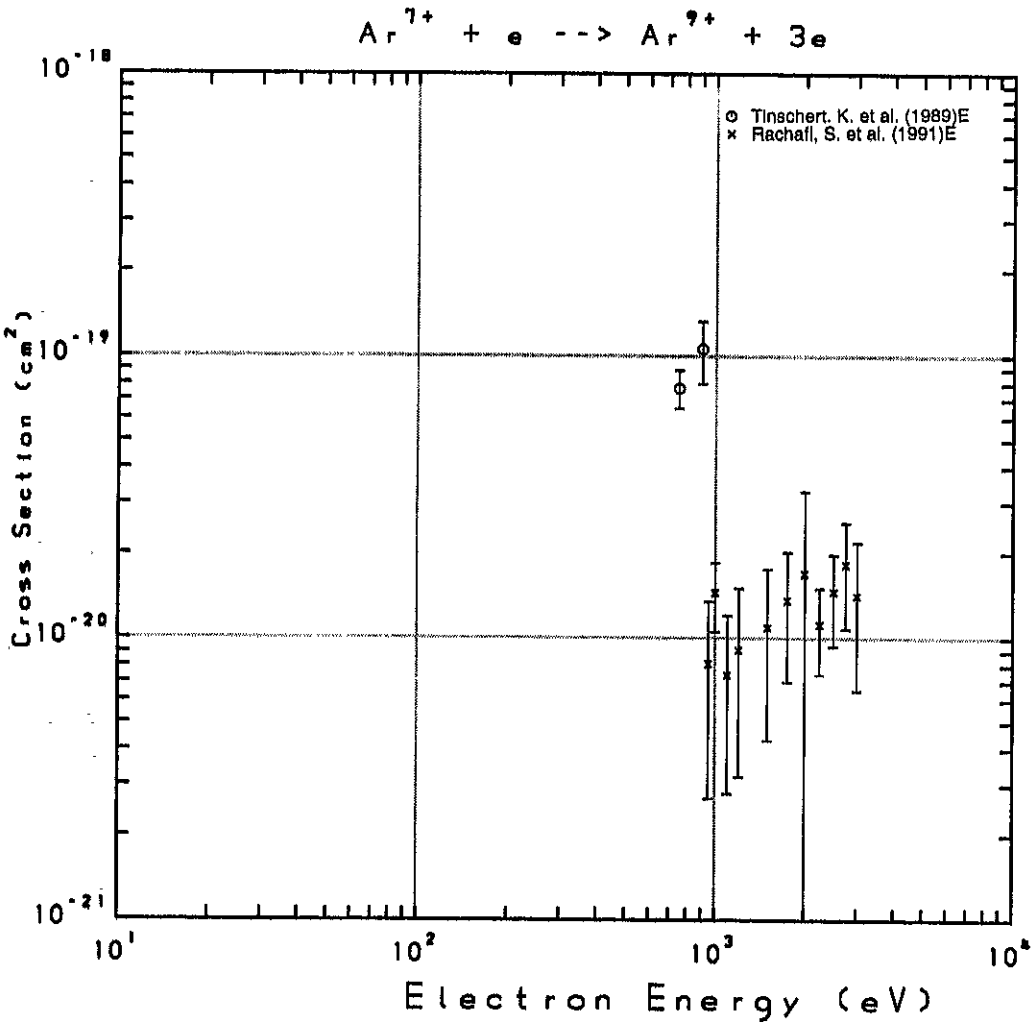

Fig. 147 $Ar^{7+} \rightarrow Ar^{9+}$

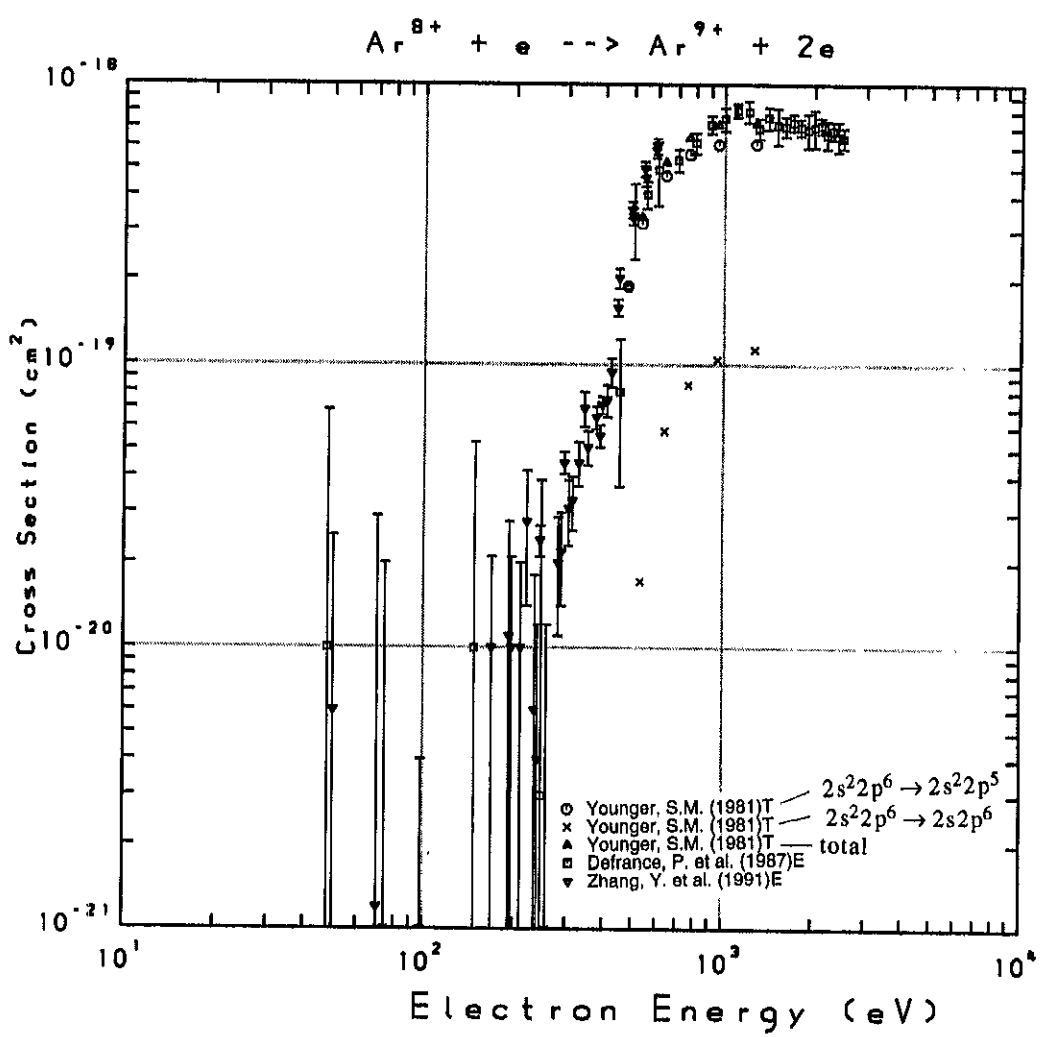

Fig. 148 $Ar^{8+} \rightarrow Ar^{9+}$

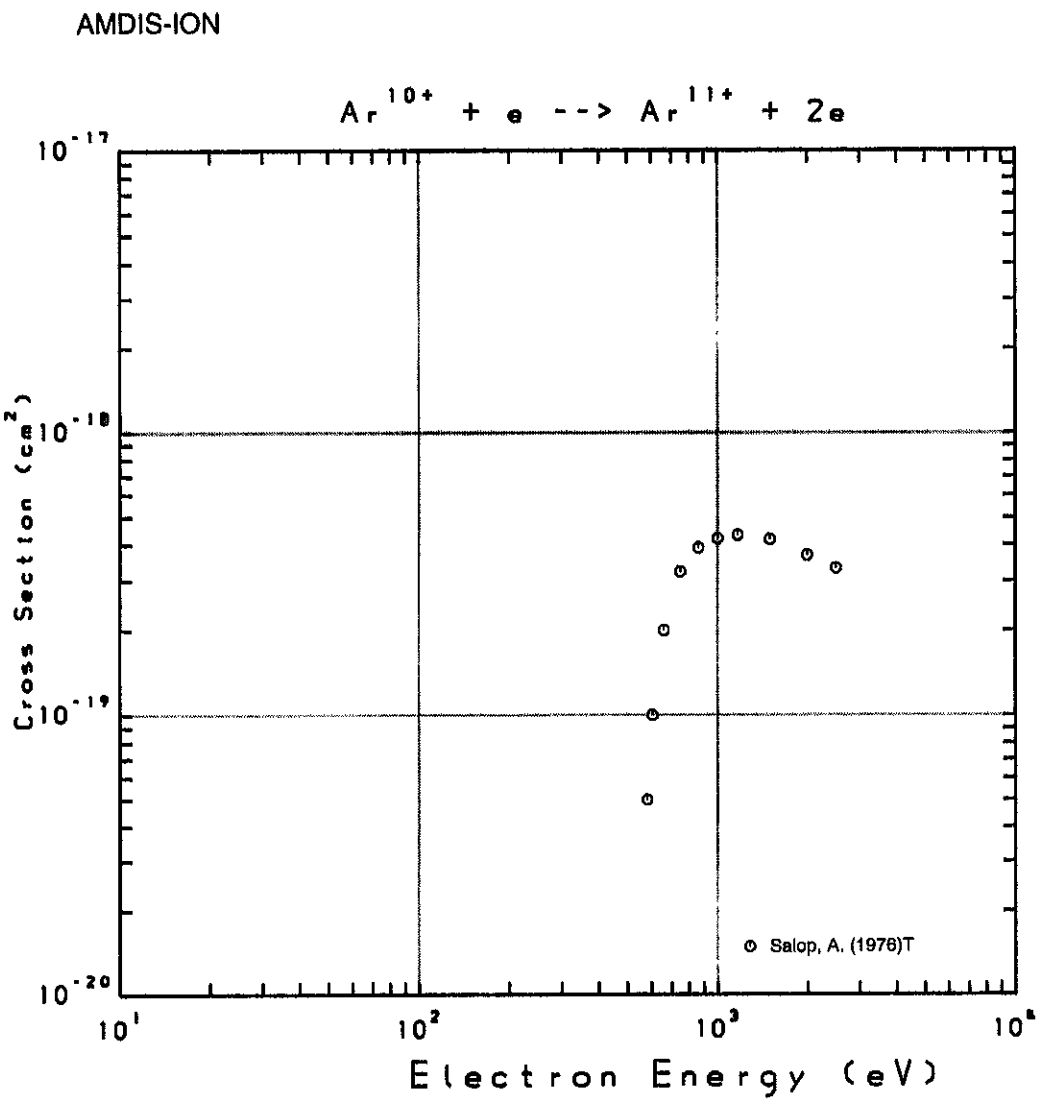

Fig. 149 $Ar^{10+} \rightarrow Ar^{11+}$

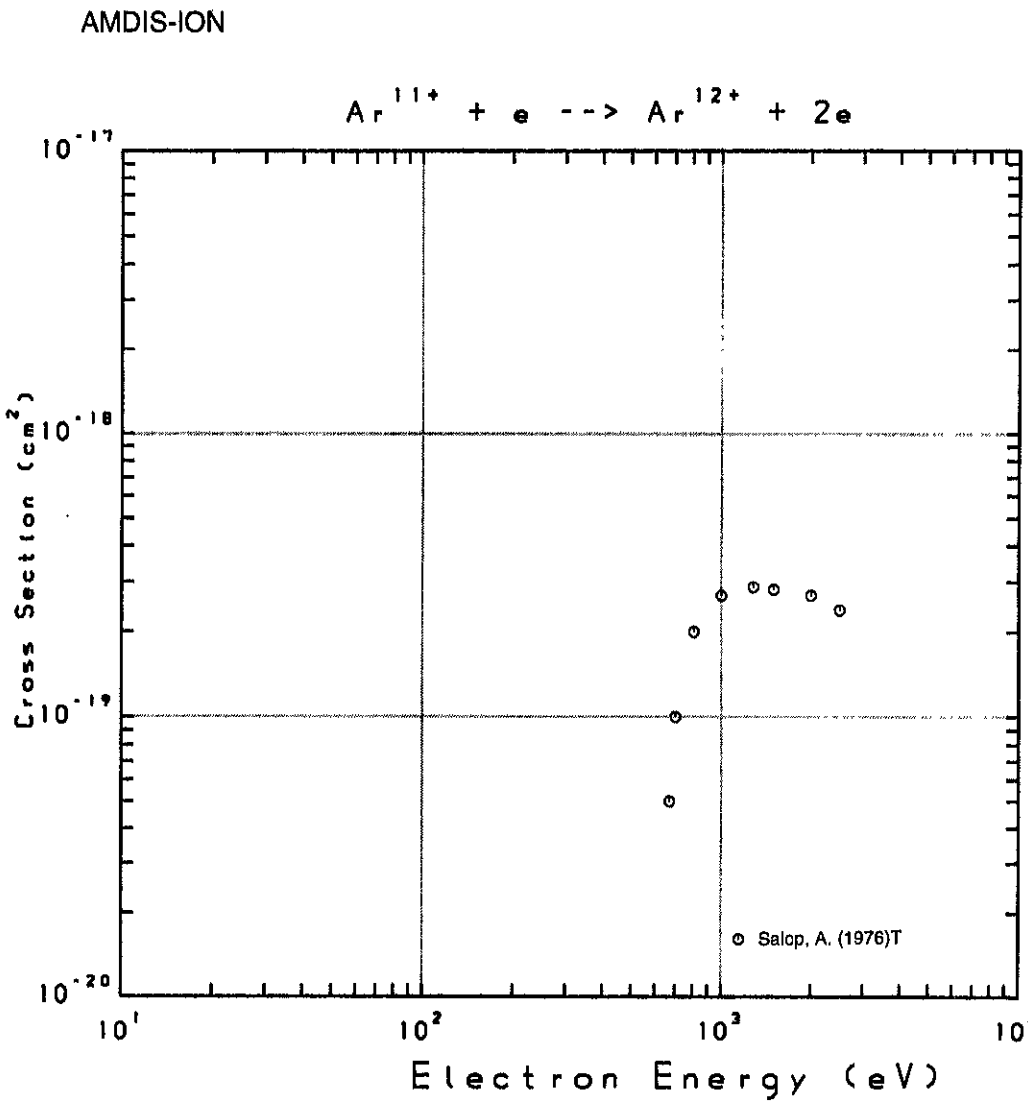

Fig. 150 $Ar^{11+} \rightarrow Ar^{12+}$

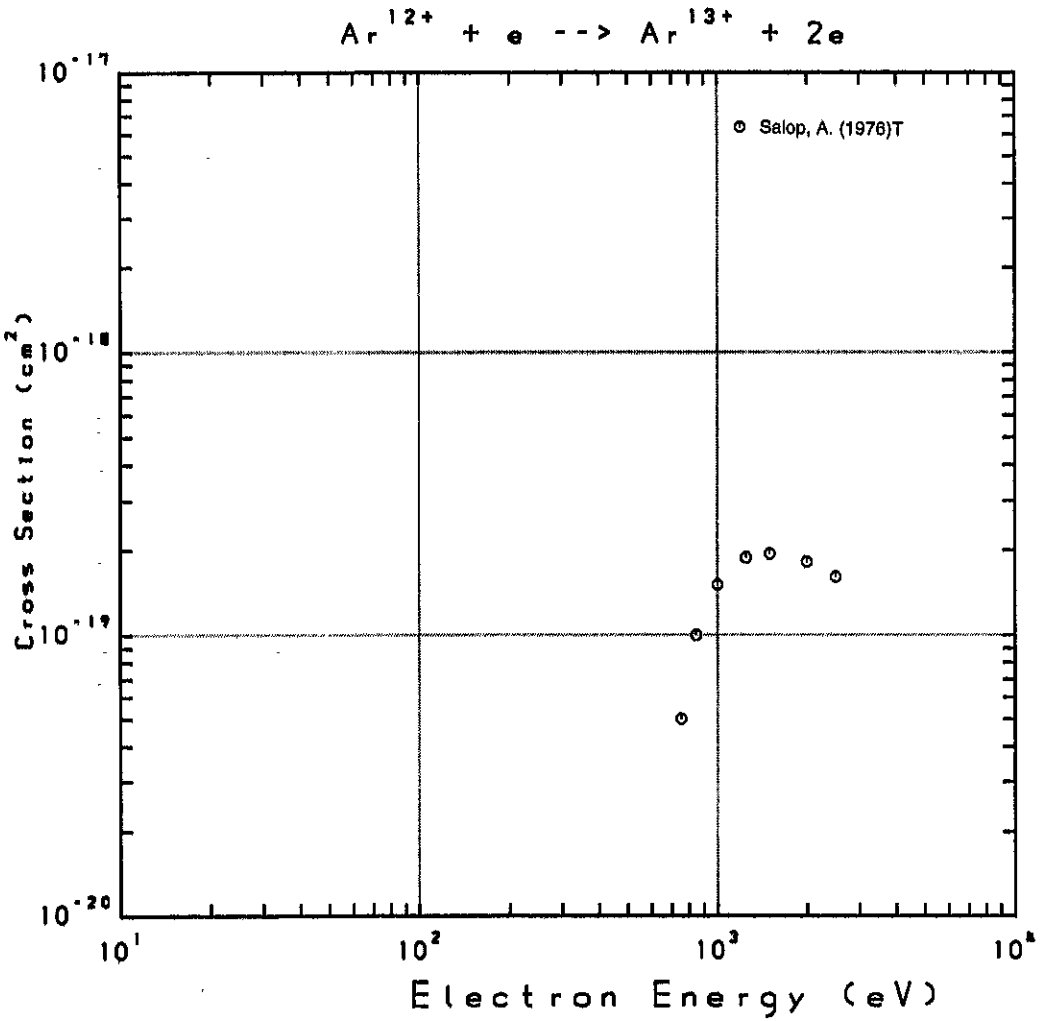

Fig. 151 $Ar^{12+} \rightarrow Ar^{13+}$

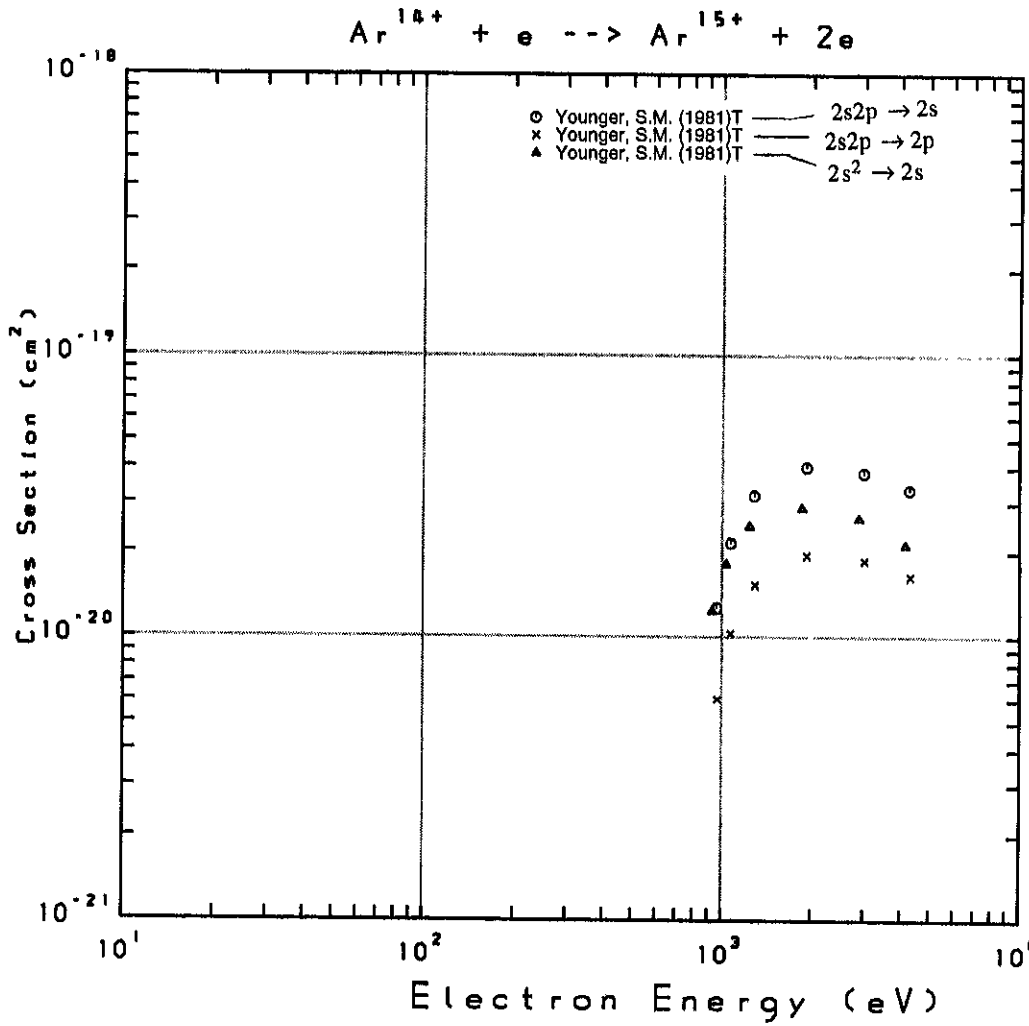

Fig. 152 $Ar^{14+} \rightarrow Ar^{15+}$

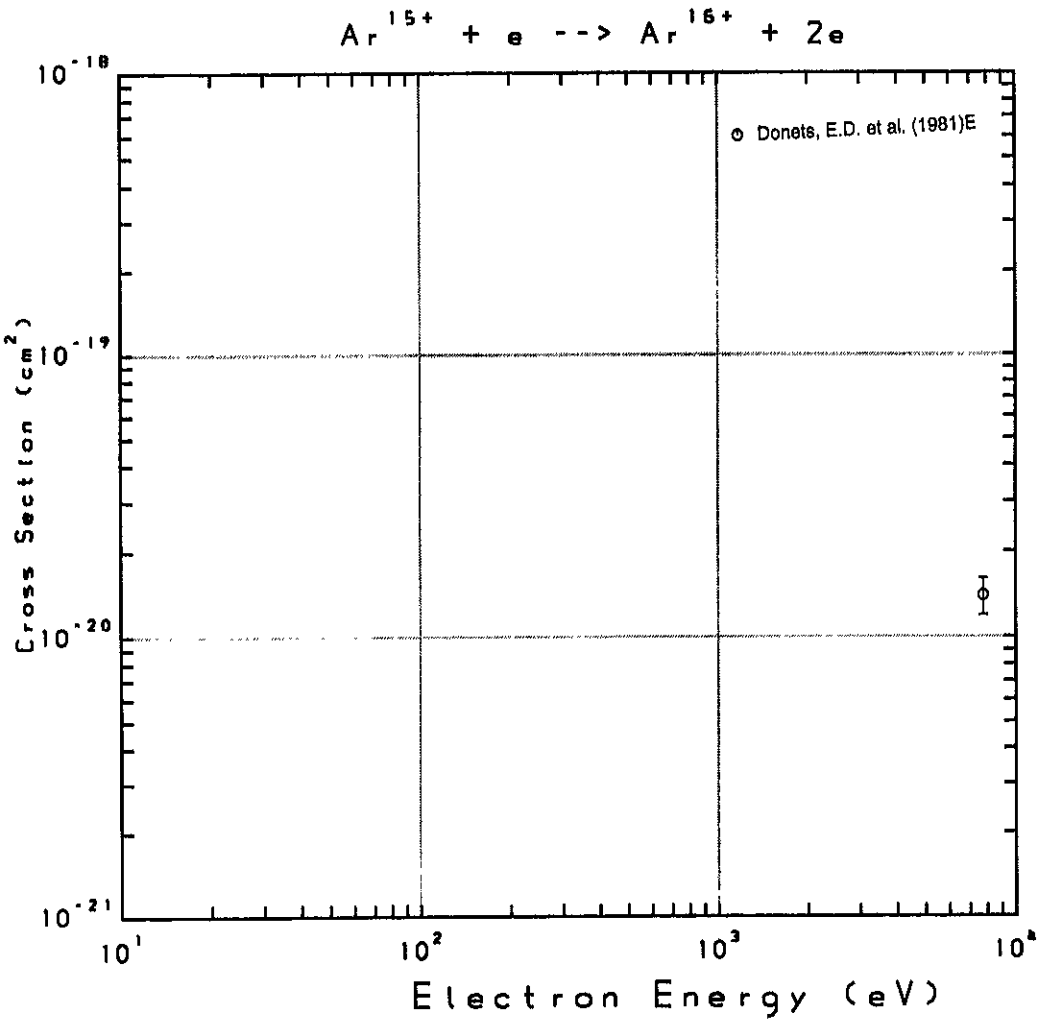

Fig. 153 $Ar^{15+} \rightarrow Ar^{16+}$

AMDIS-ION

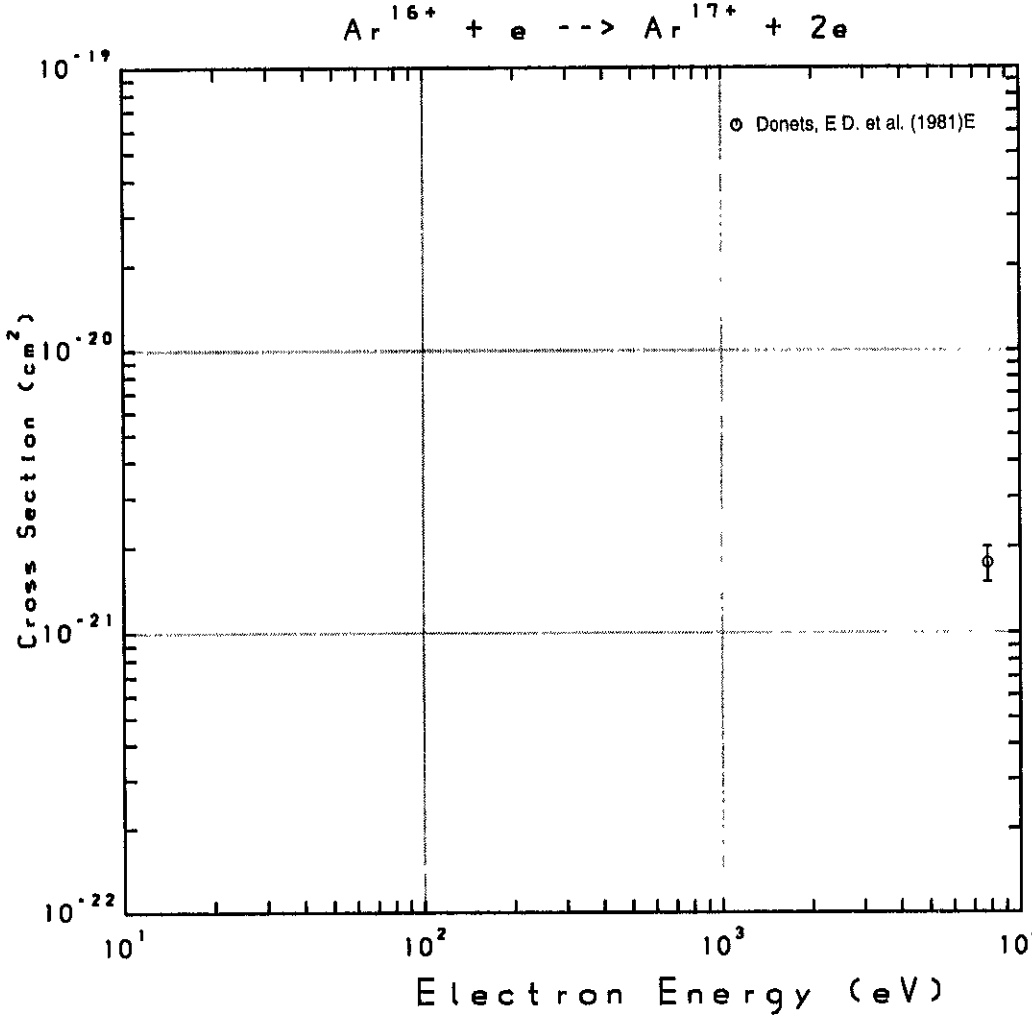

Fig. 154 $Ar^{16+} \rightarrow Ar^{17+}$

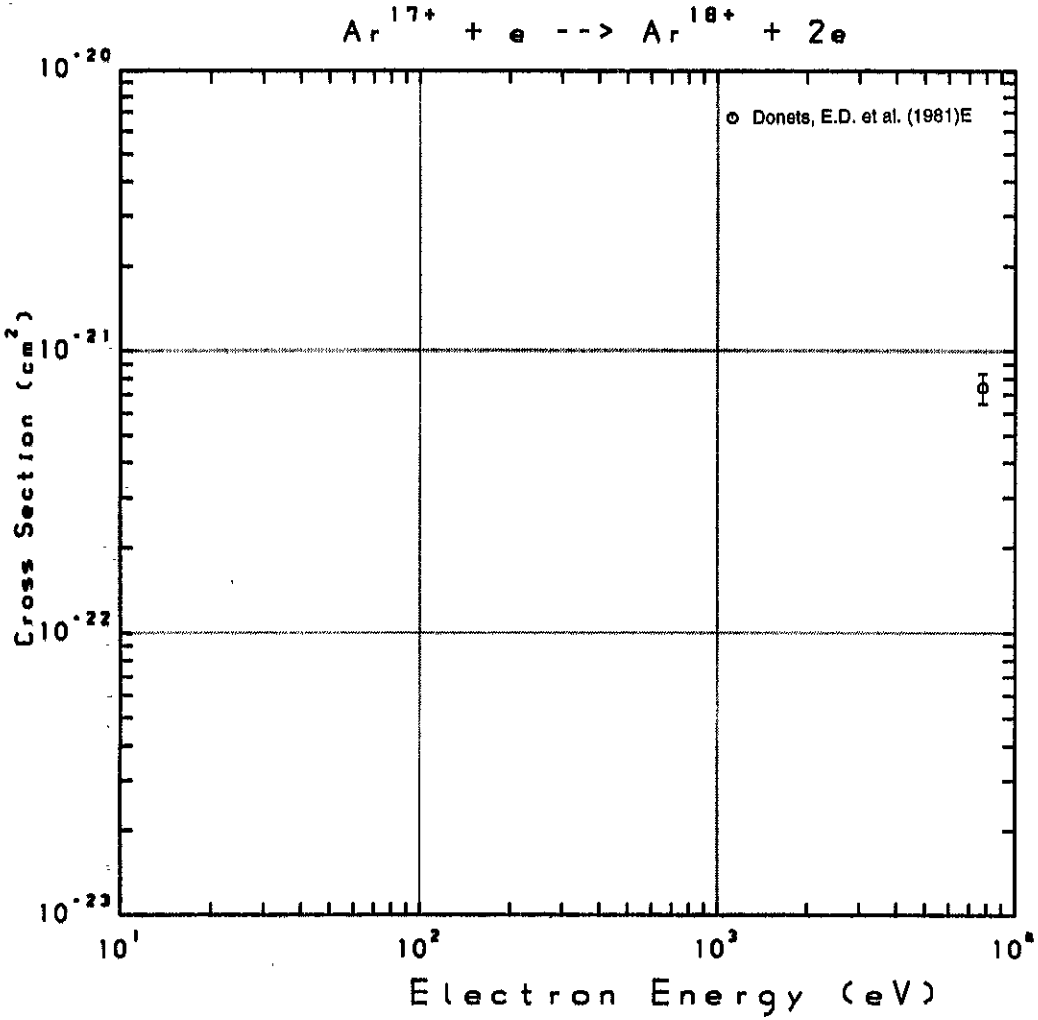

Fig. 155 $Ar^{17+} \rightarrow Ar^{18+}$

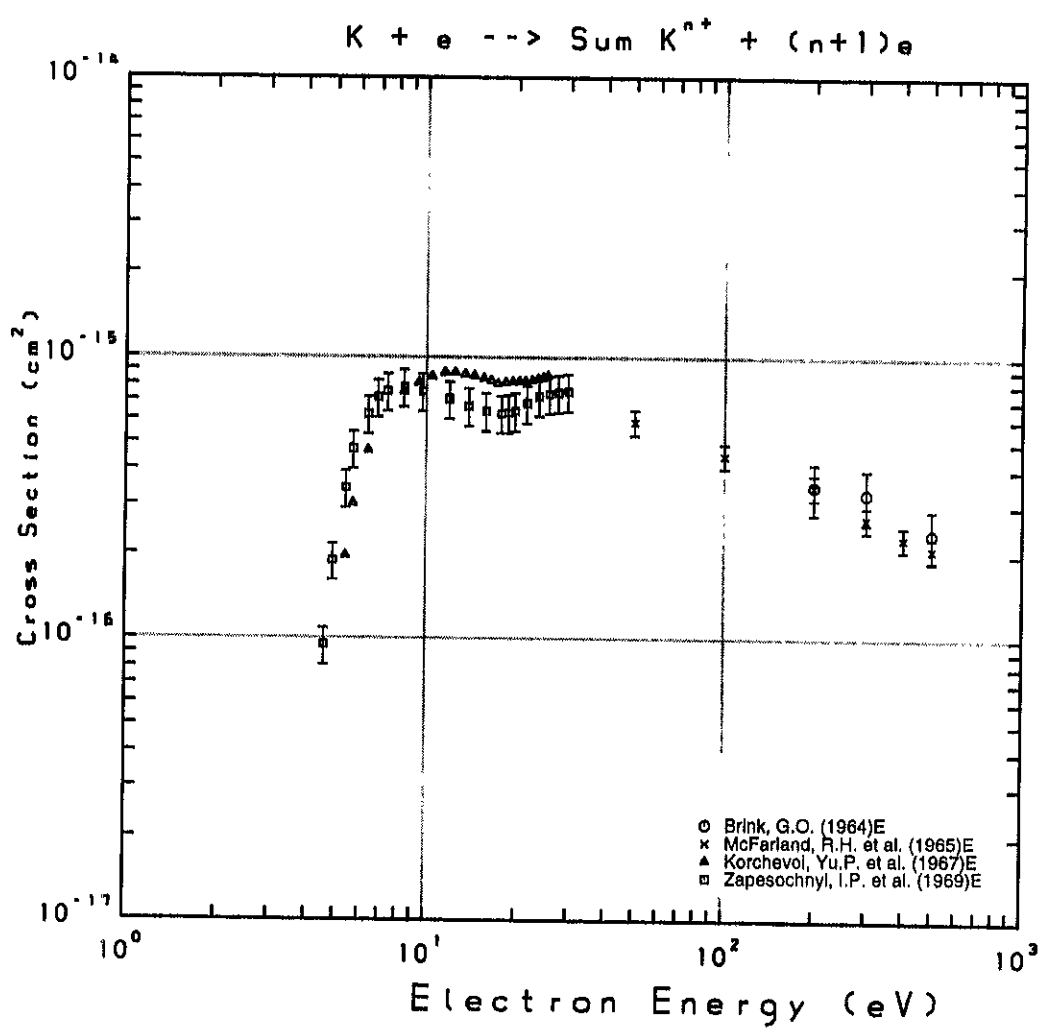

Fig. 156 $K \rightarrow \Sigma K^{n+}$

AMDIS-ION

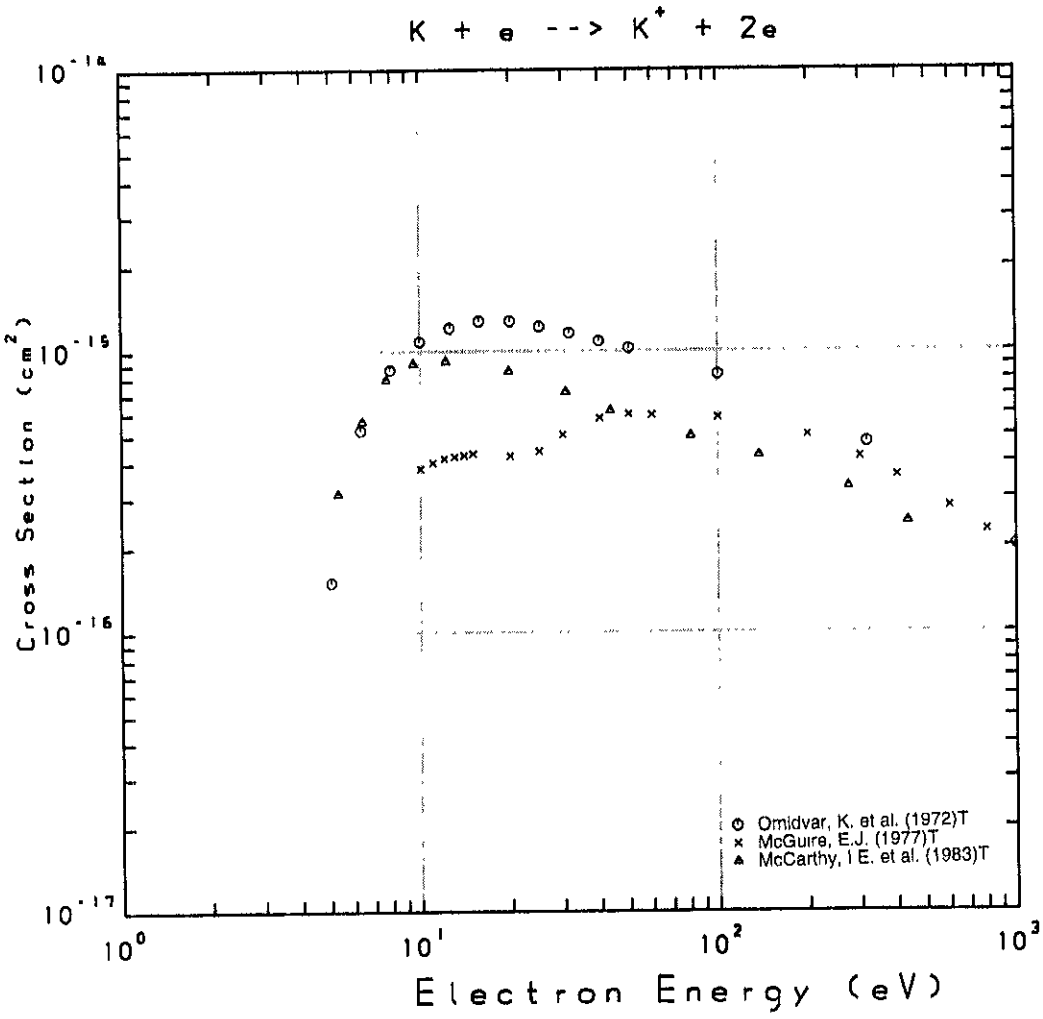

Fig. 157 $K \rightarrow K^+$

AMDIS-ION

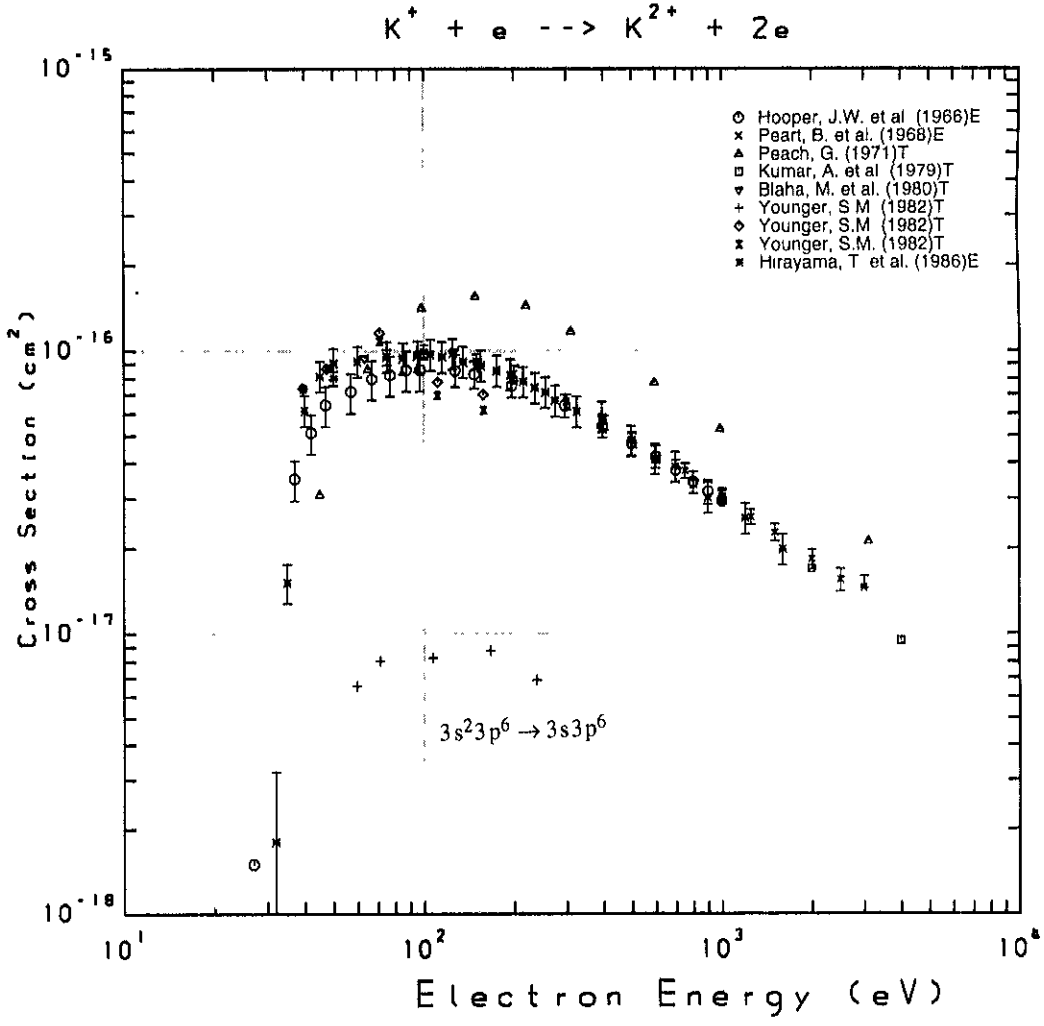

Fig. 158 $K^+ \rightarrow K^{2+}$

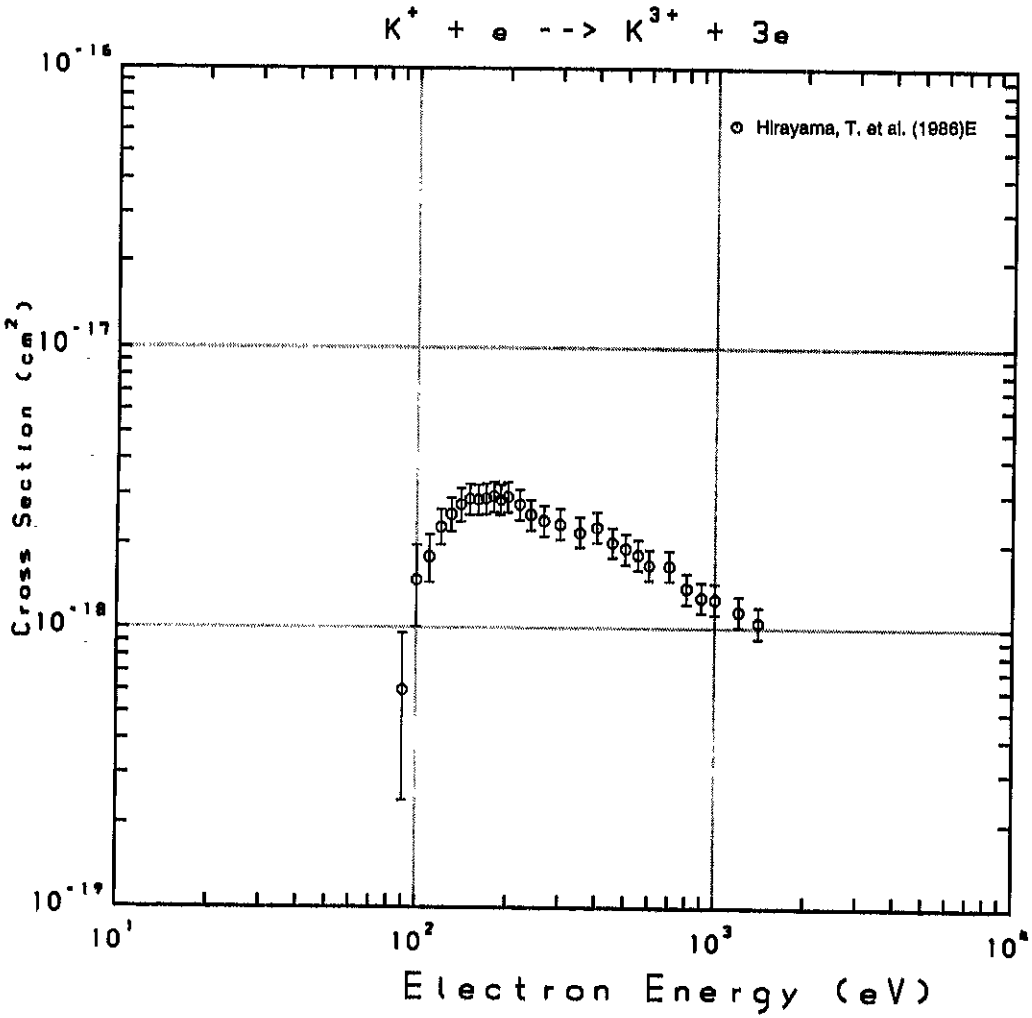

Fig. 159 $K^+ \rightarrow K^{3+}$

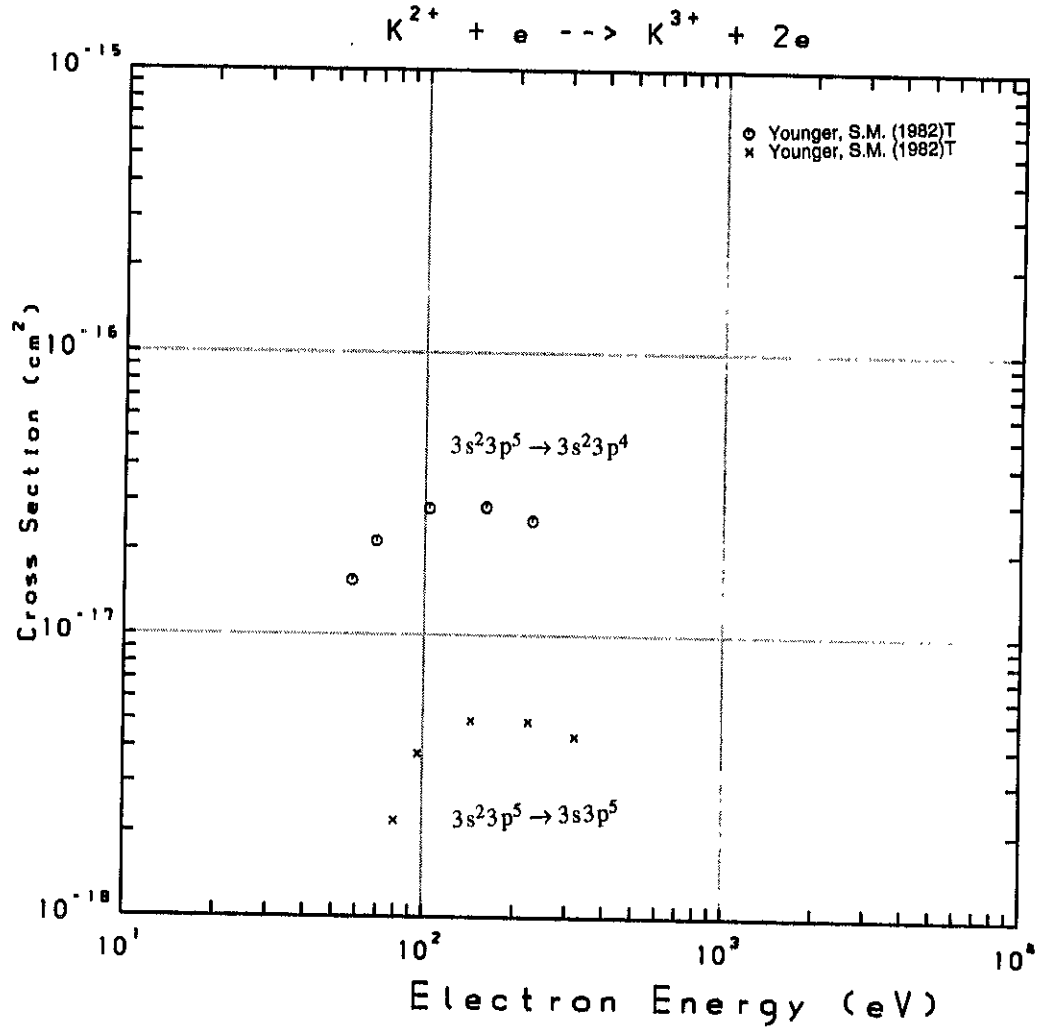

Fig. 160 $K^{2+} \rightarrow K^{3+}$

AMDIS-ION

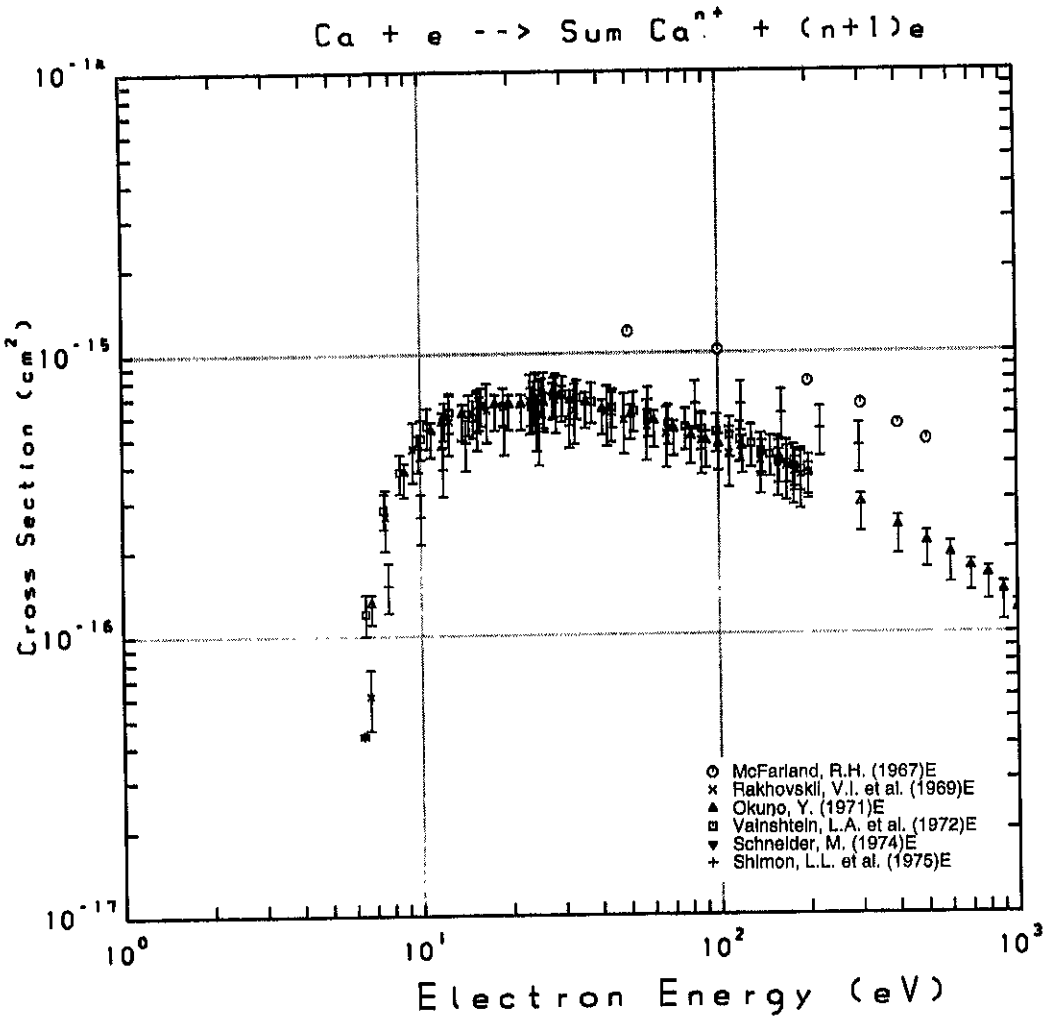

Fig. 161 $Ca \rightarrow \Sigma Ca^{n+}$

AMDIS-ION

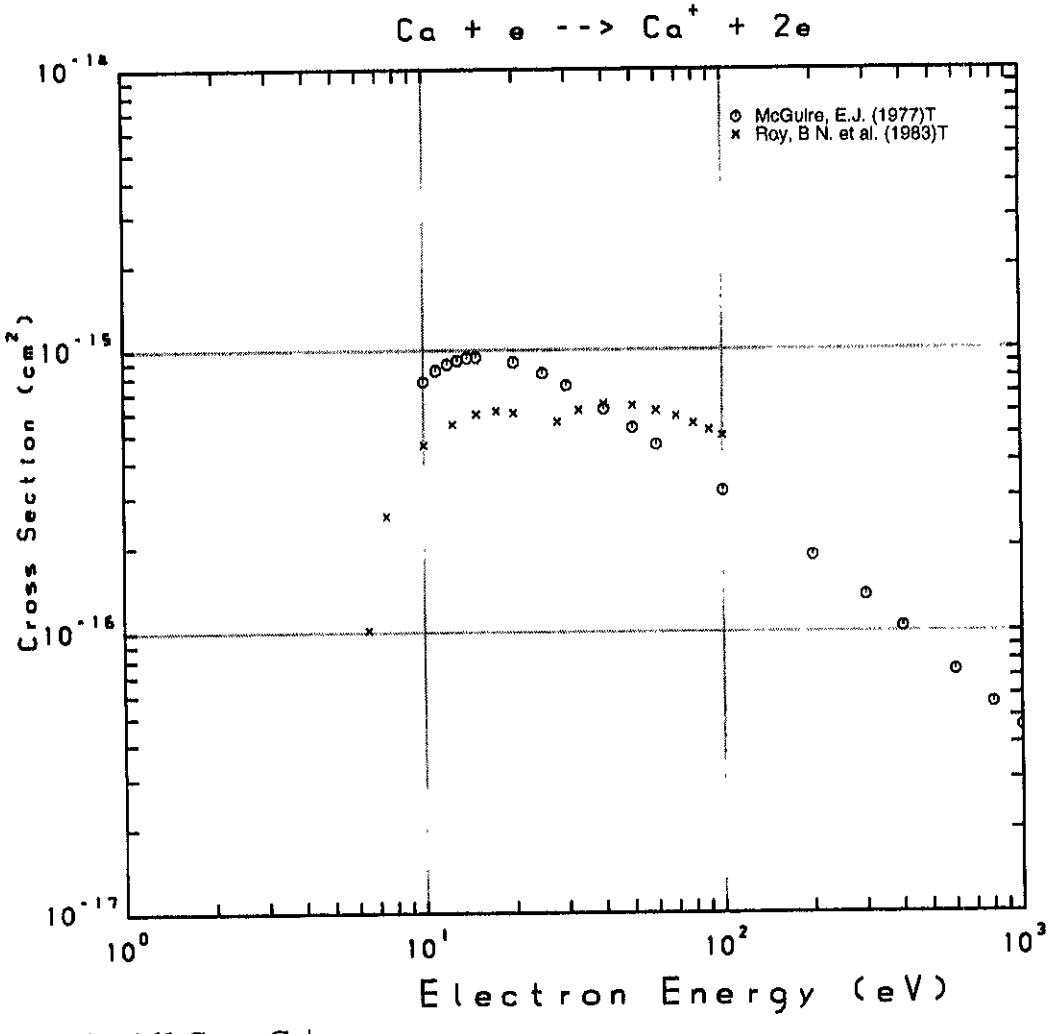

Fig. 162 $Ca \rightarrow Ca^{+}$

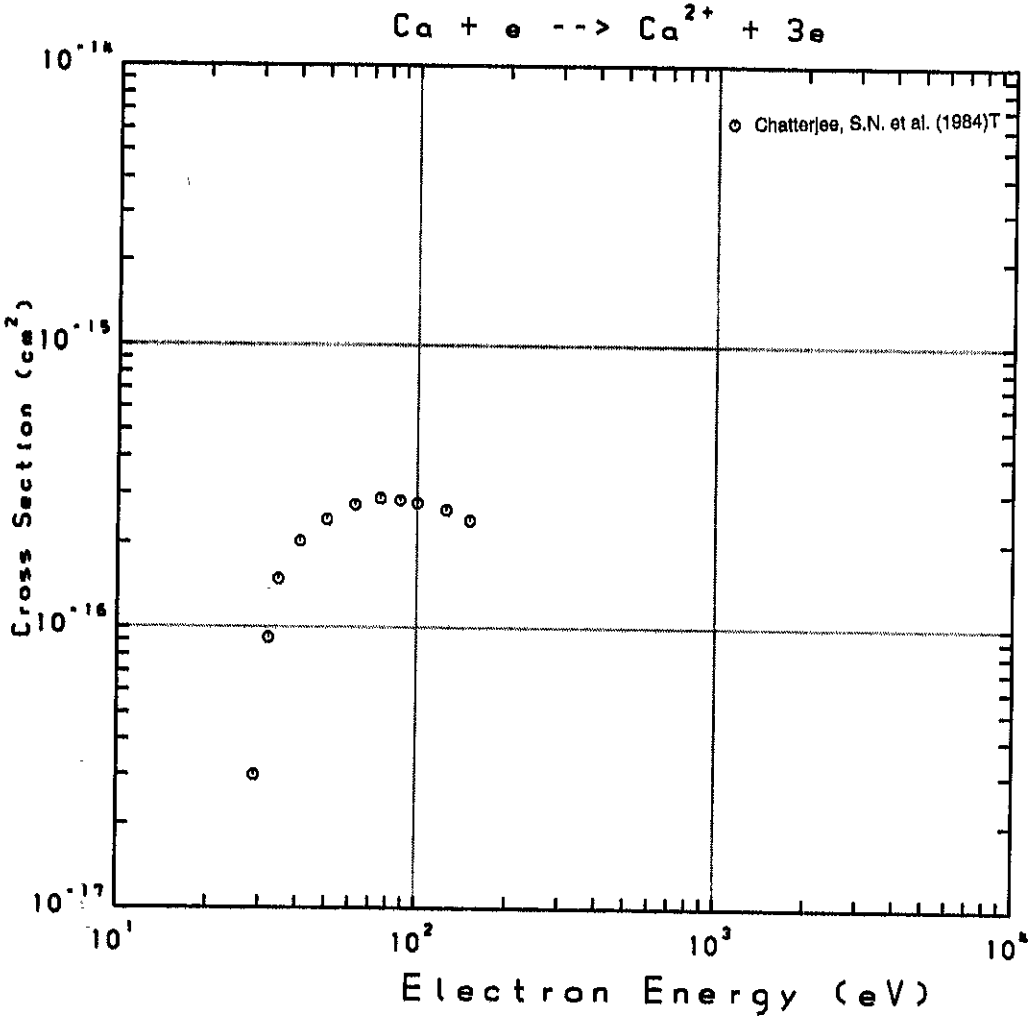

Fig. 163 Ca → Ca^{2+}

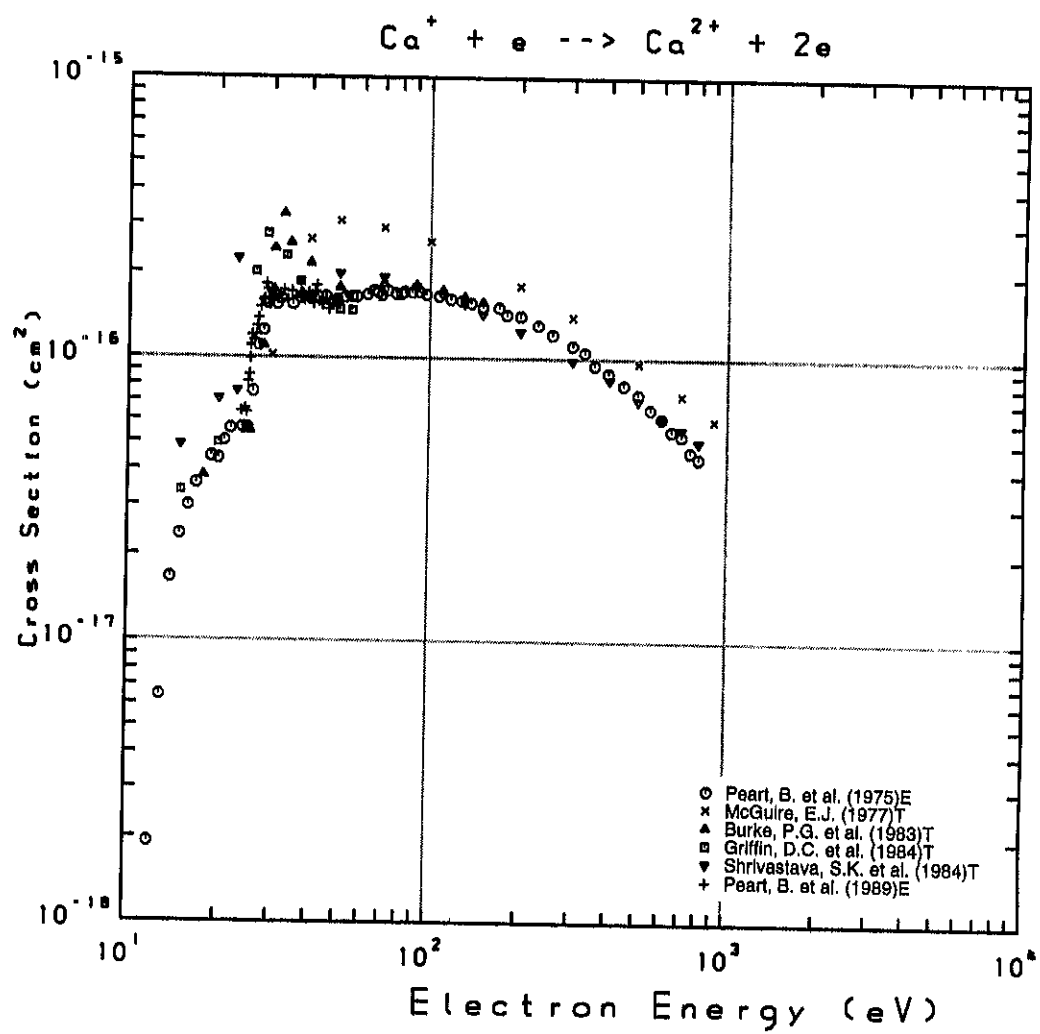

Fig. 164 Ca^{+} → Ca^{2+}

AMDIS-ION

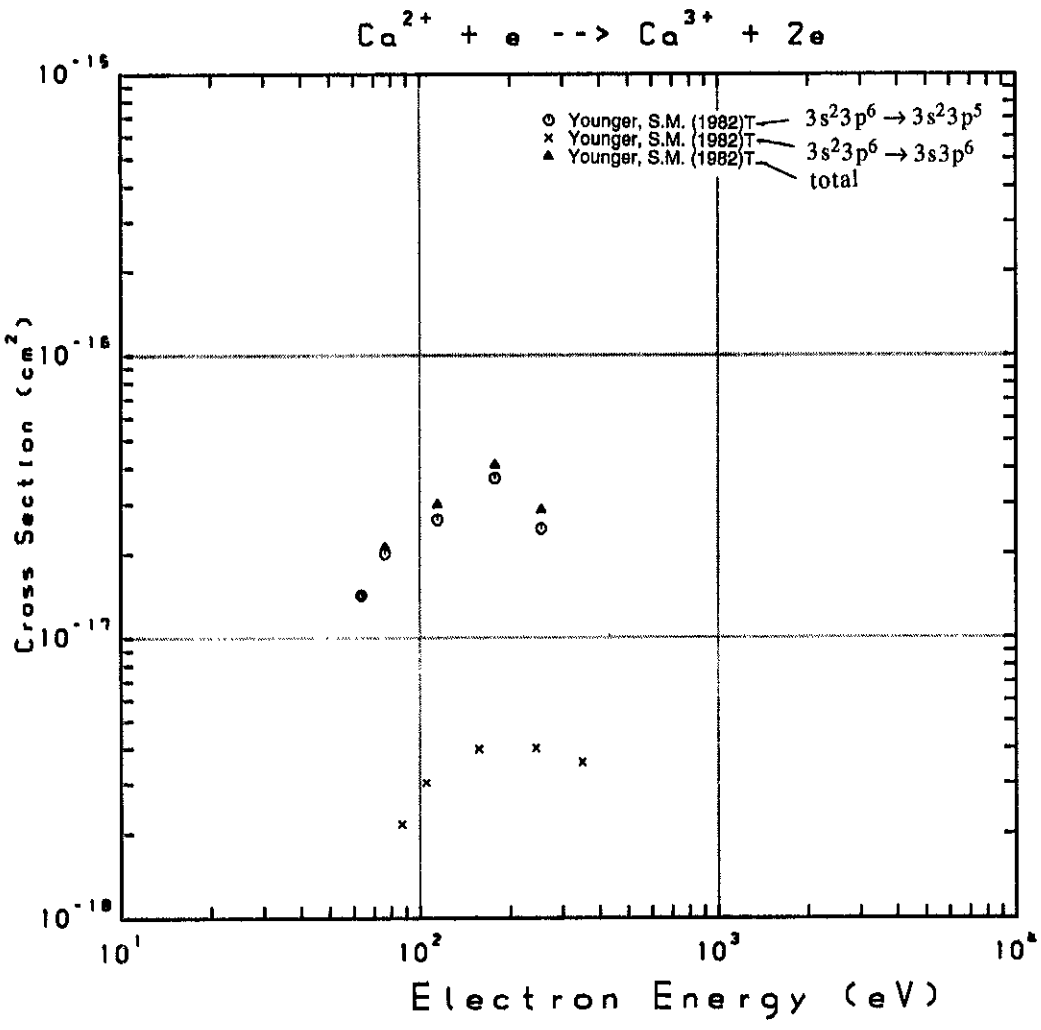

Fig. 165 $Ca^{2+} \rightarrow Ca^{3+}$

AMDIS-ION

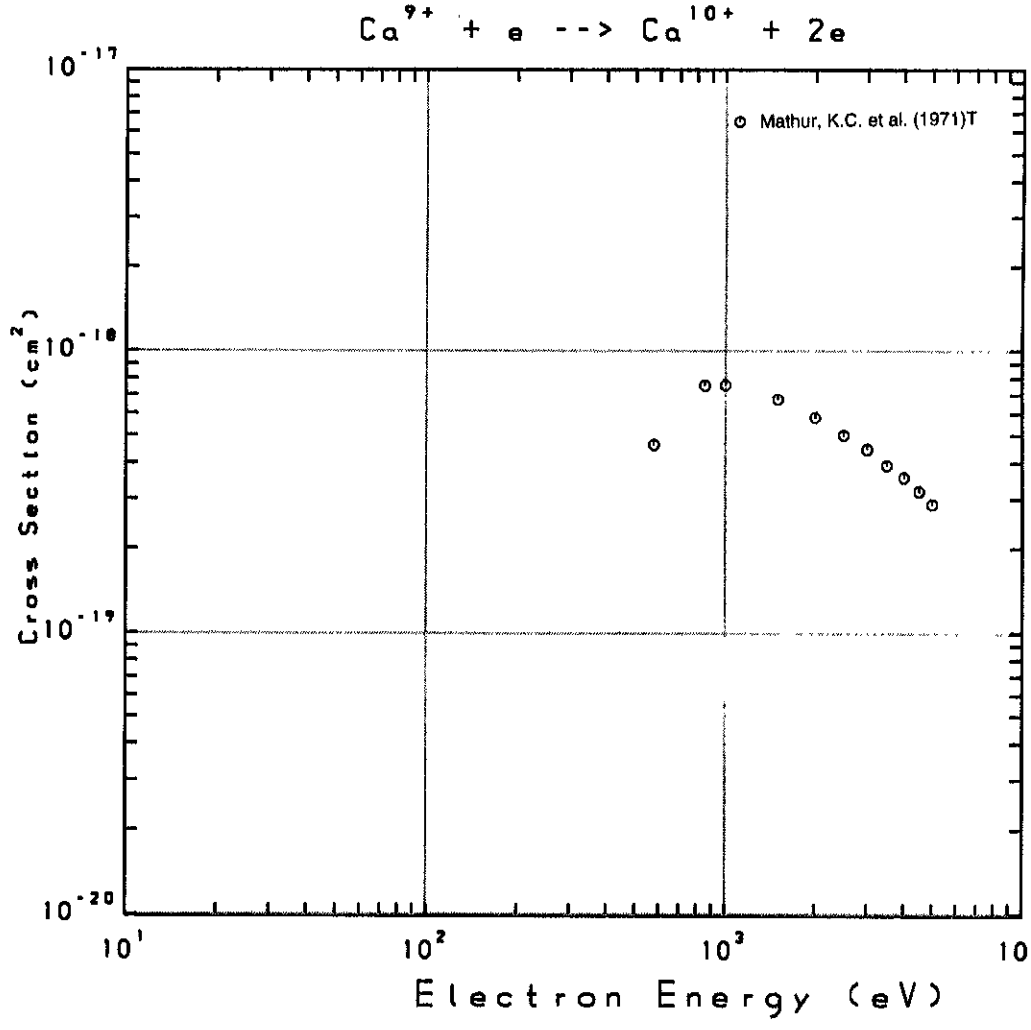

Fig. 166 $Ca^{9+} \rightarrow Ca^{10+}$

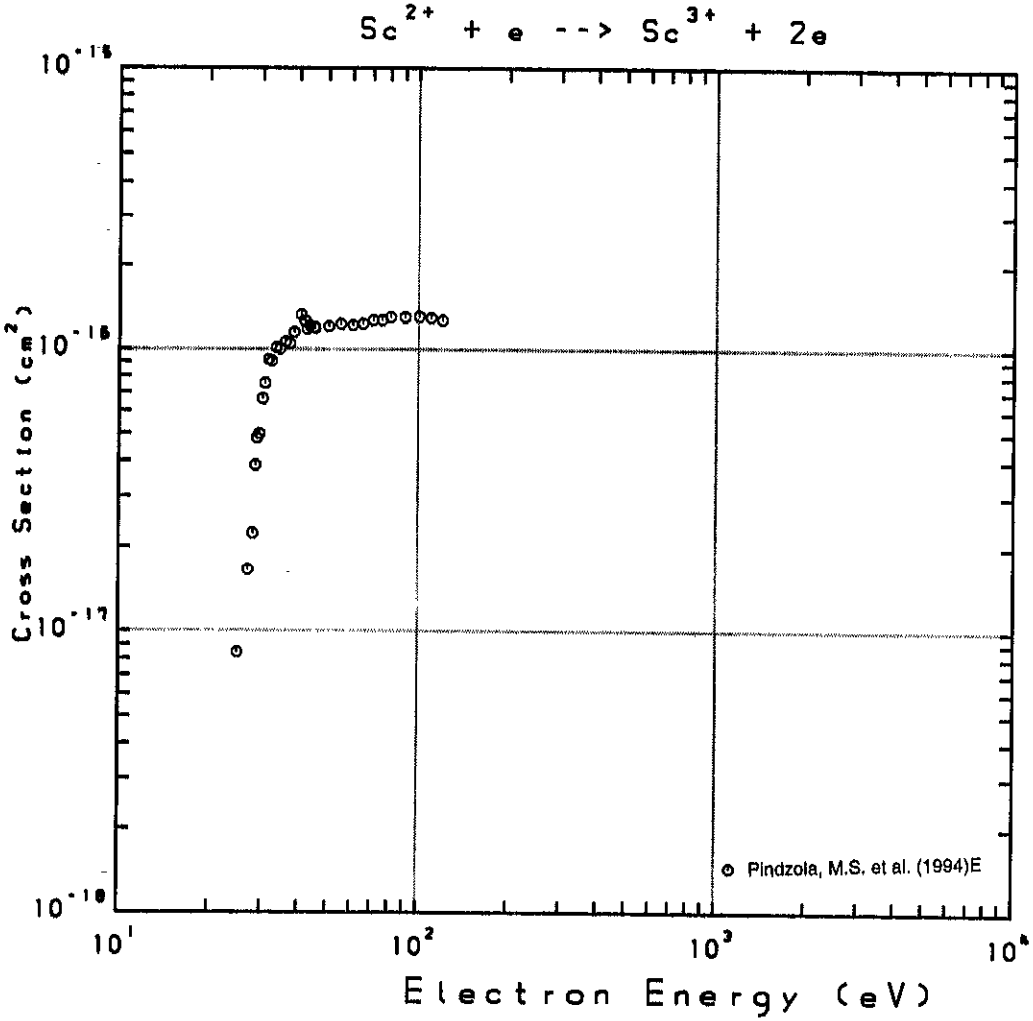

Fig. 167 $Sc^{2+} \rightarrow Sc^{3+}$

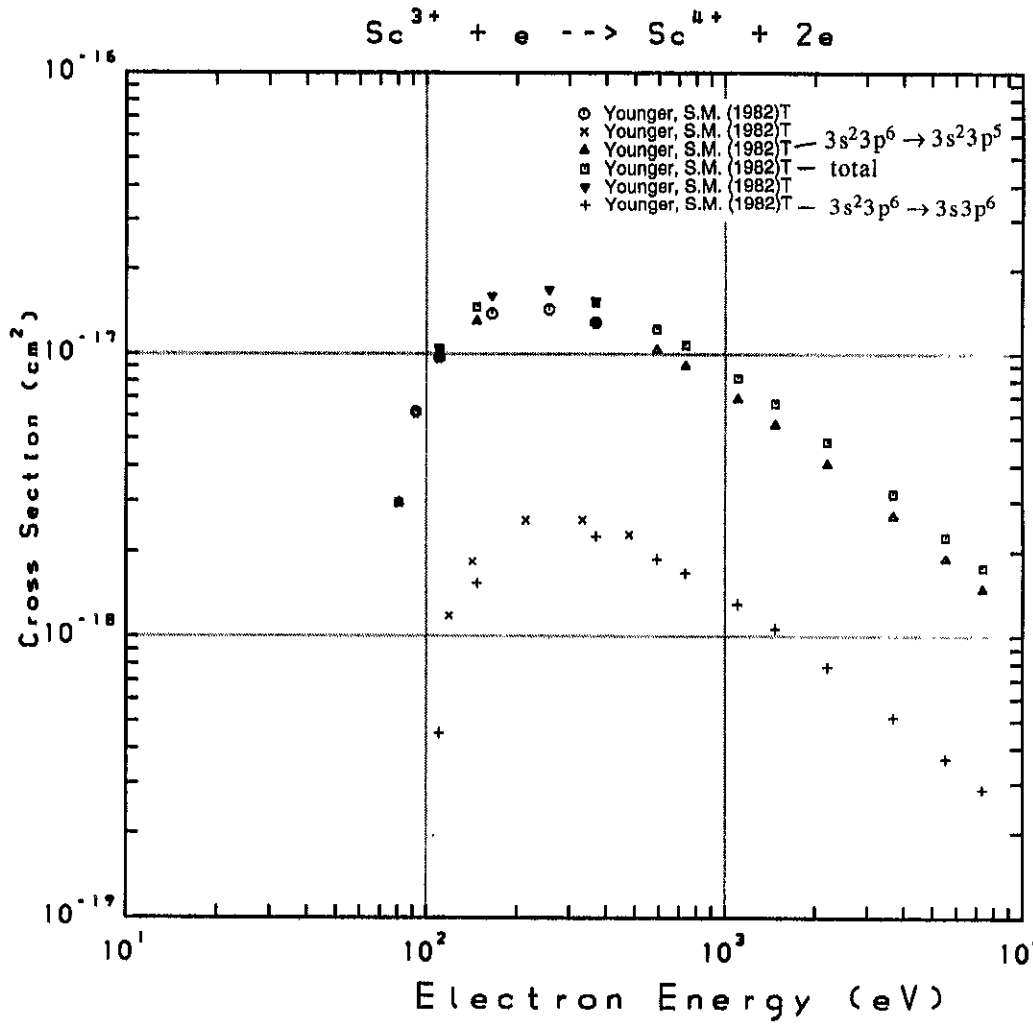

Fig. 168 $Sc^{3+} \rightarrow Sc^{4+}$

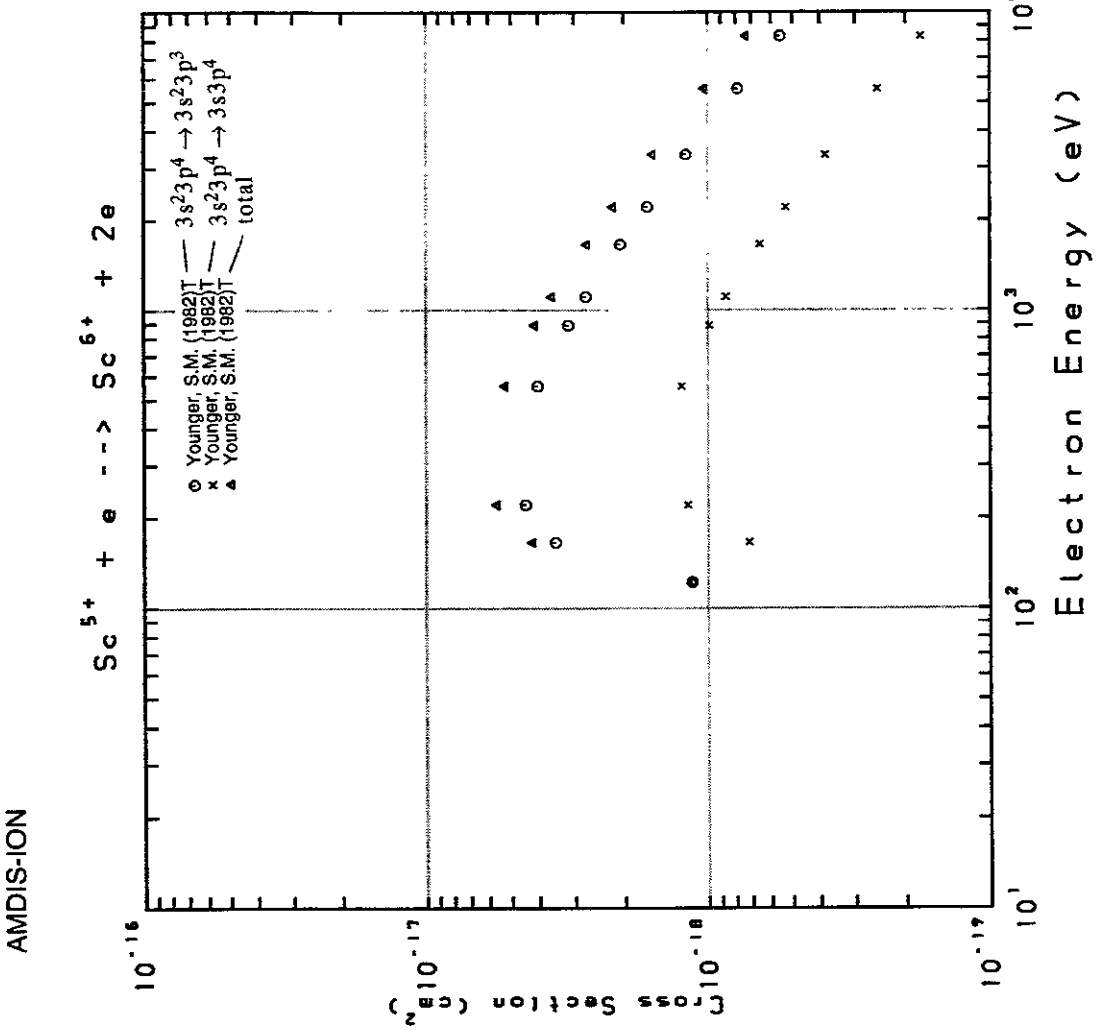

Fig. 170 $Sc^{5+} \rightarrow Sc^{6+}$

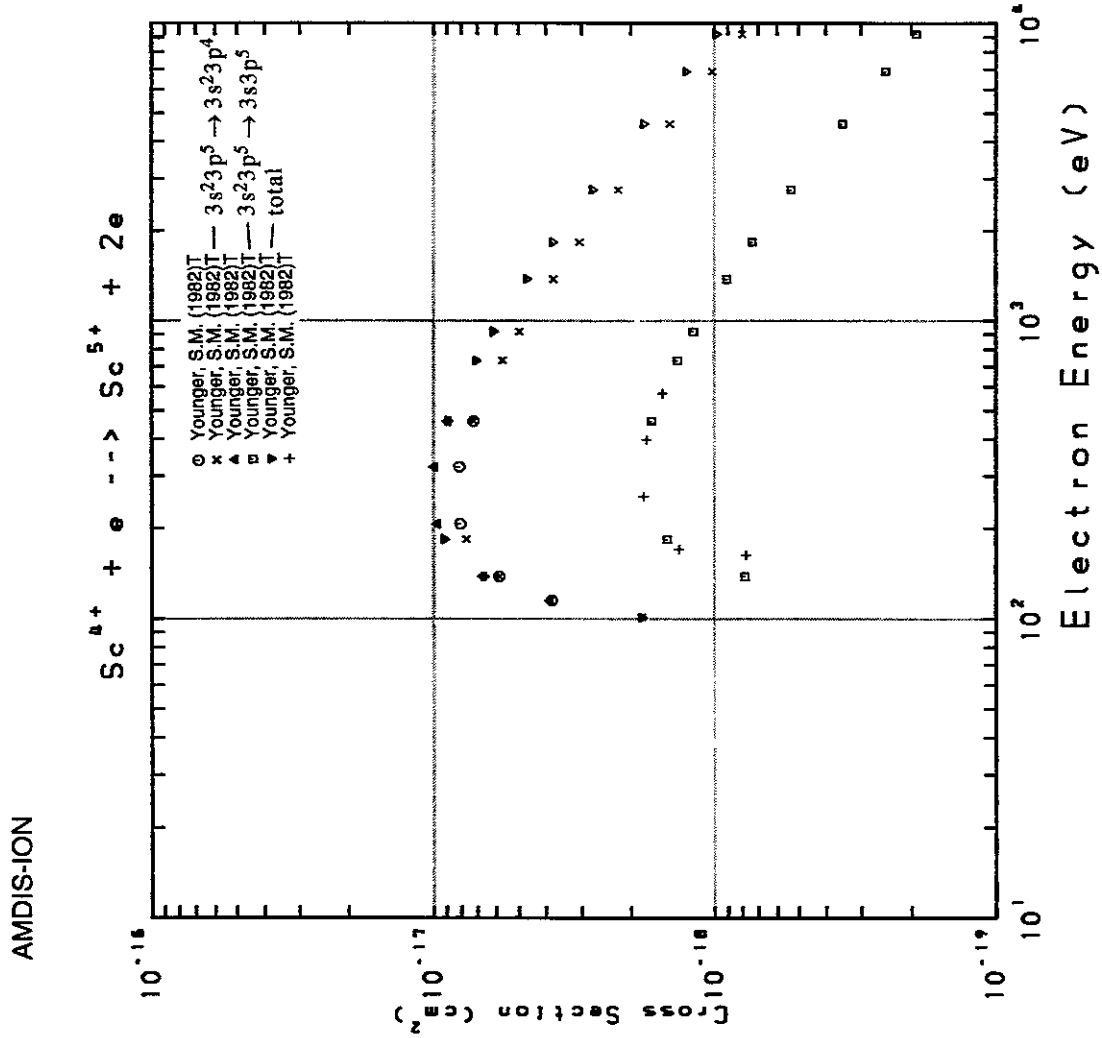

Fig. 169 $Sc^{4+} \rightarrow Sc^{5+}$

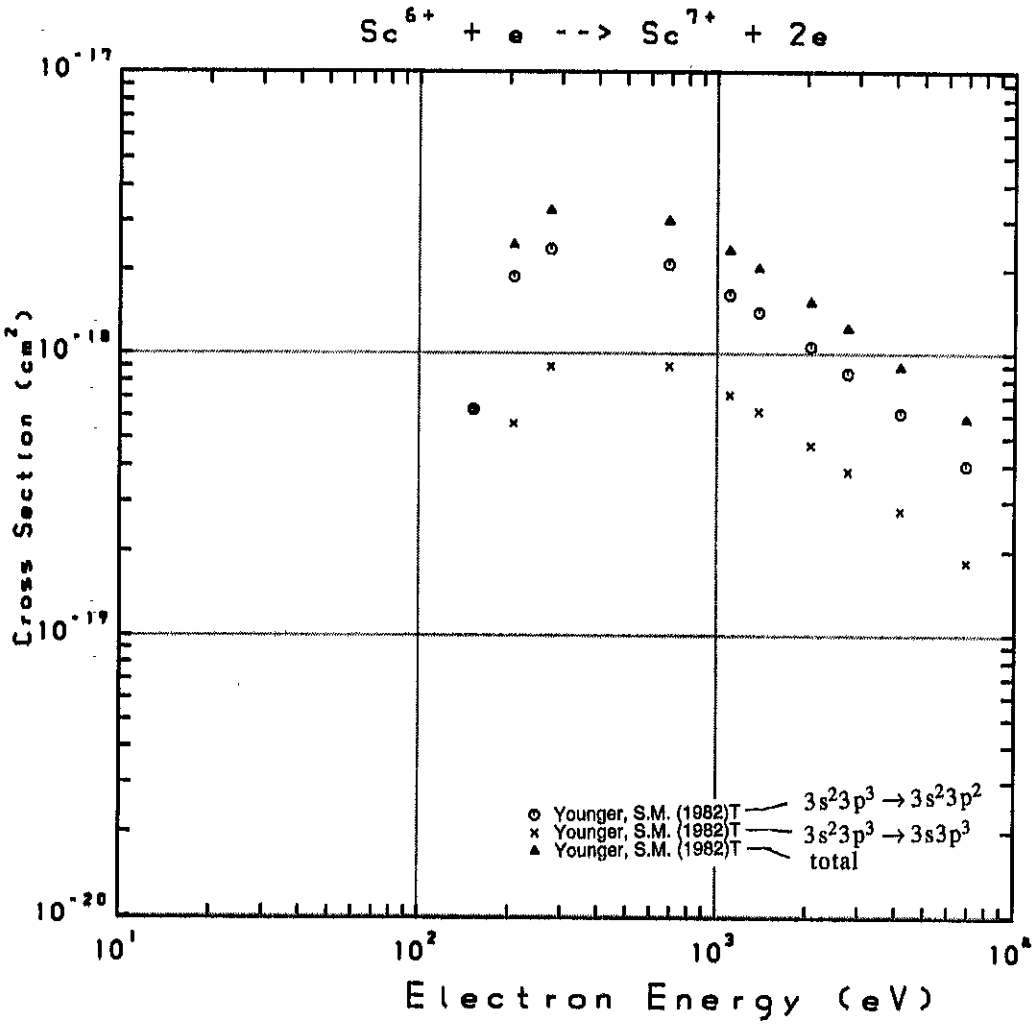

Fig. 171 $Sc^{6+} \rightarrow Sc^{7+}$

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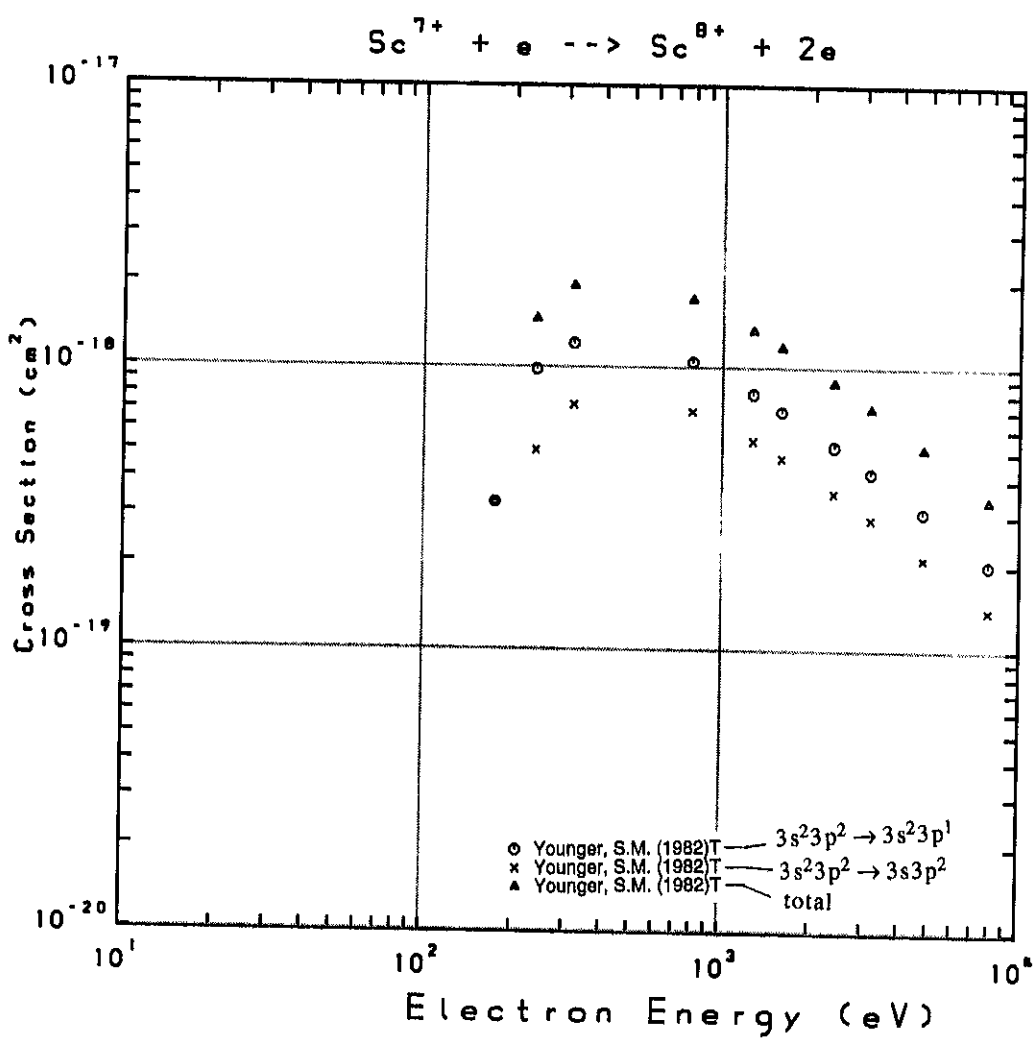

Fig. 172 $Sc^{7+} \rightarrow Sc^{8+}$

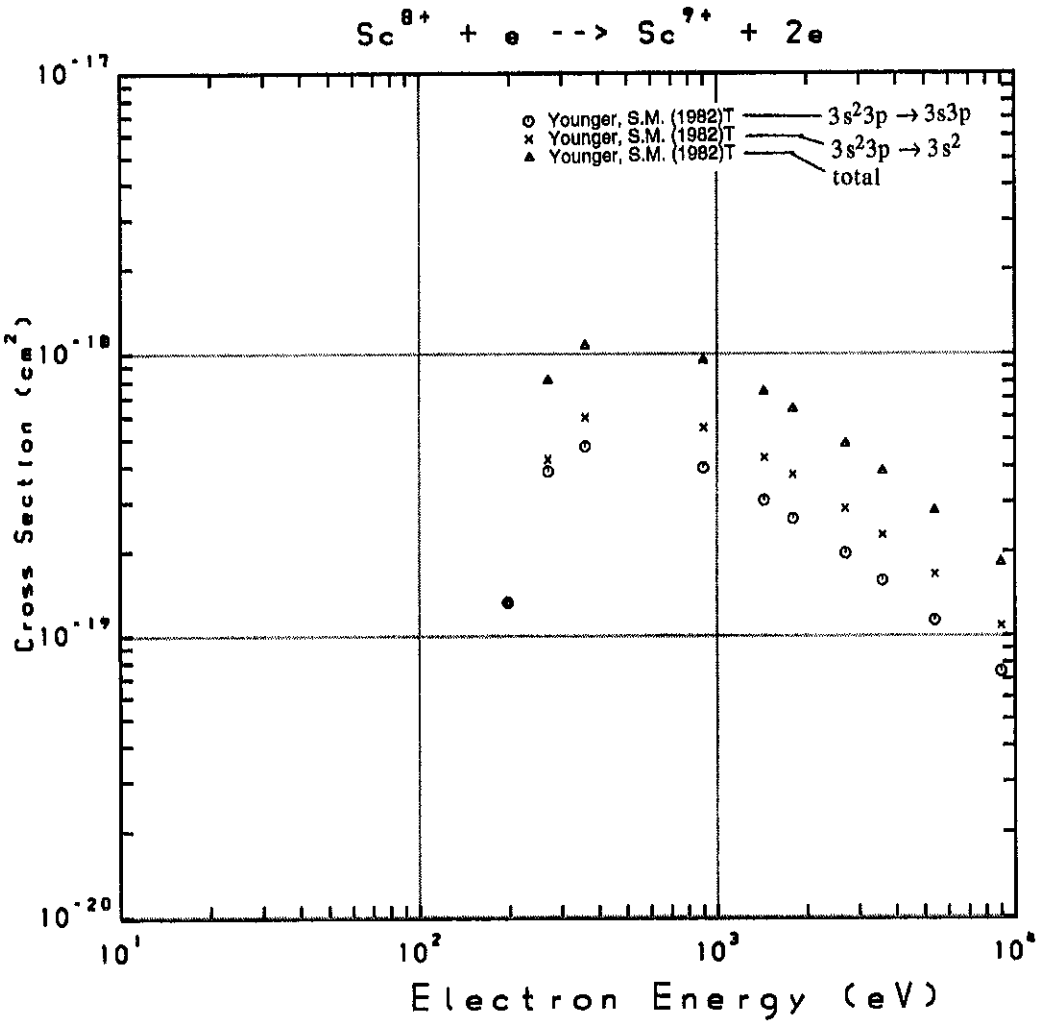

Fig. 173 $Sc^{8+} \rightarrow Sc^{9+}$

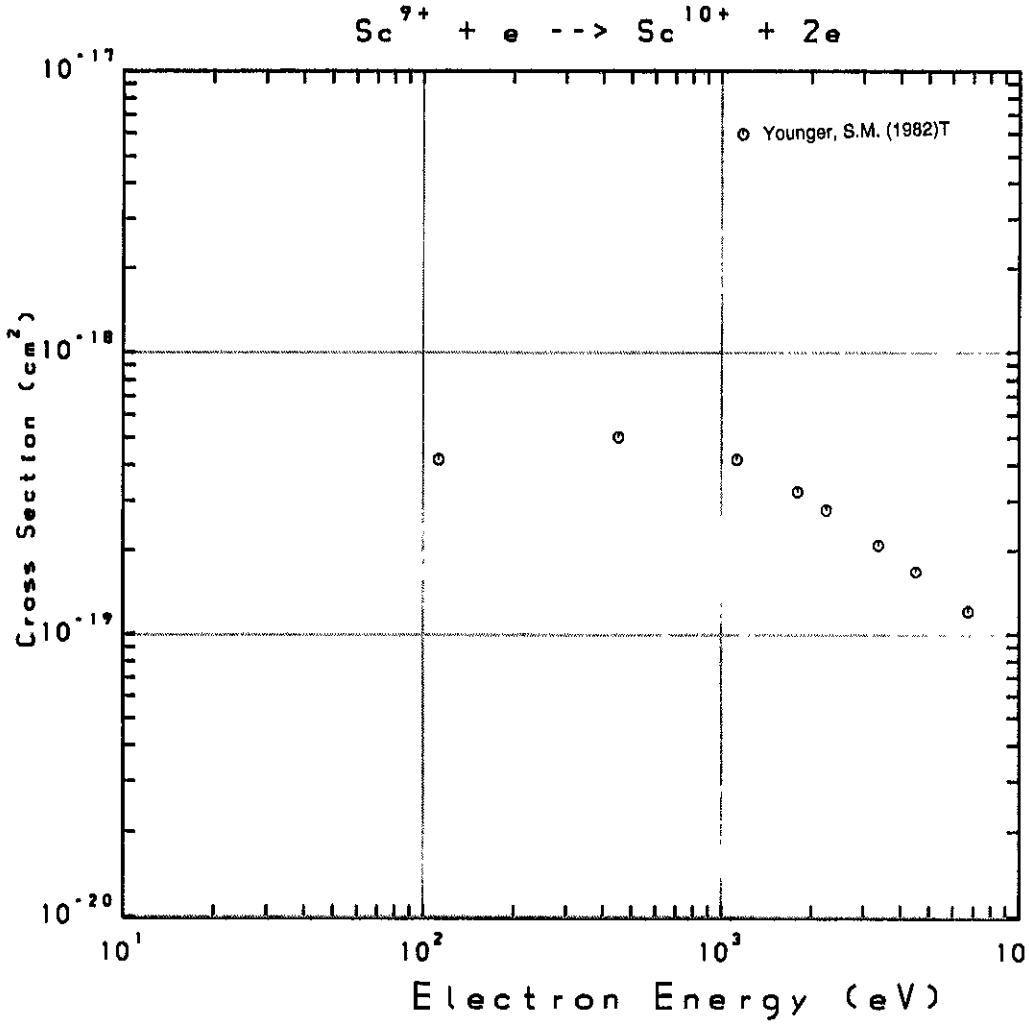

Fig. 174 $Sc^{9+} \rightarrow Sc^{10+}$

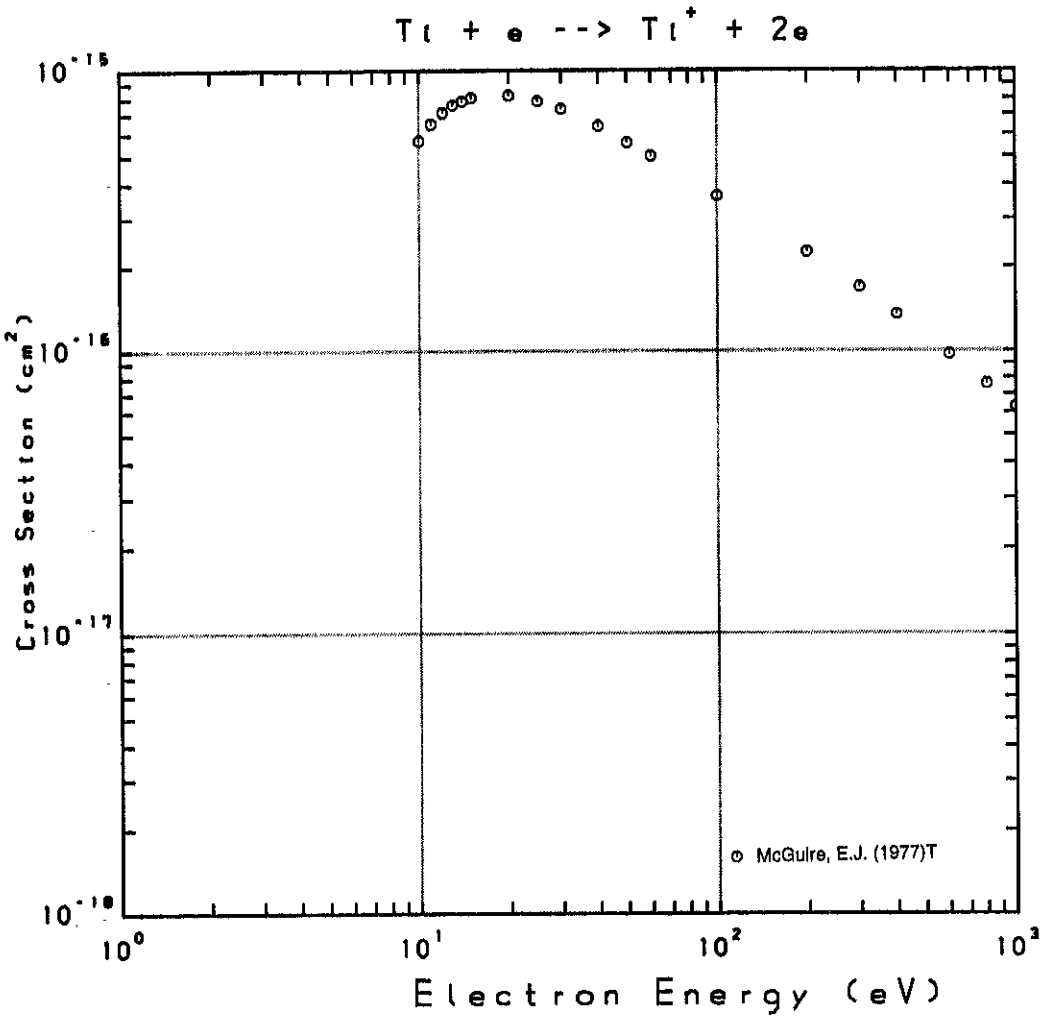

Fig. 175 Ti → Ti^{+}

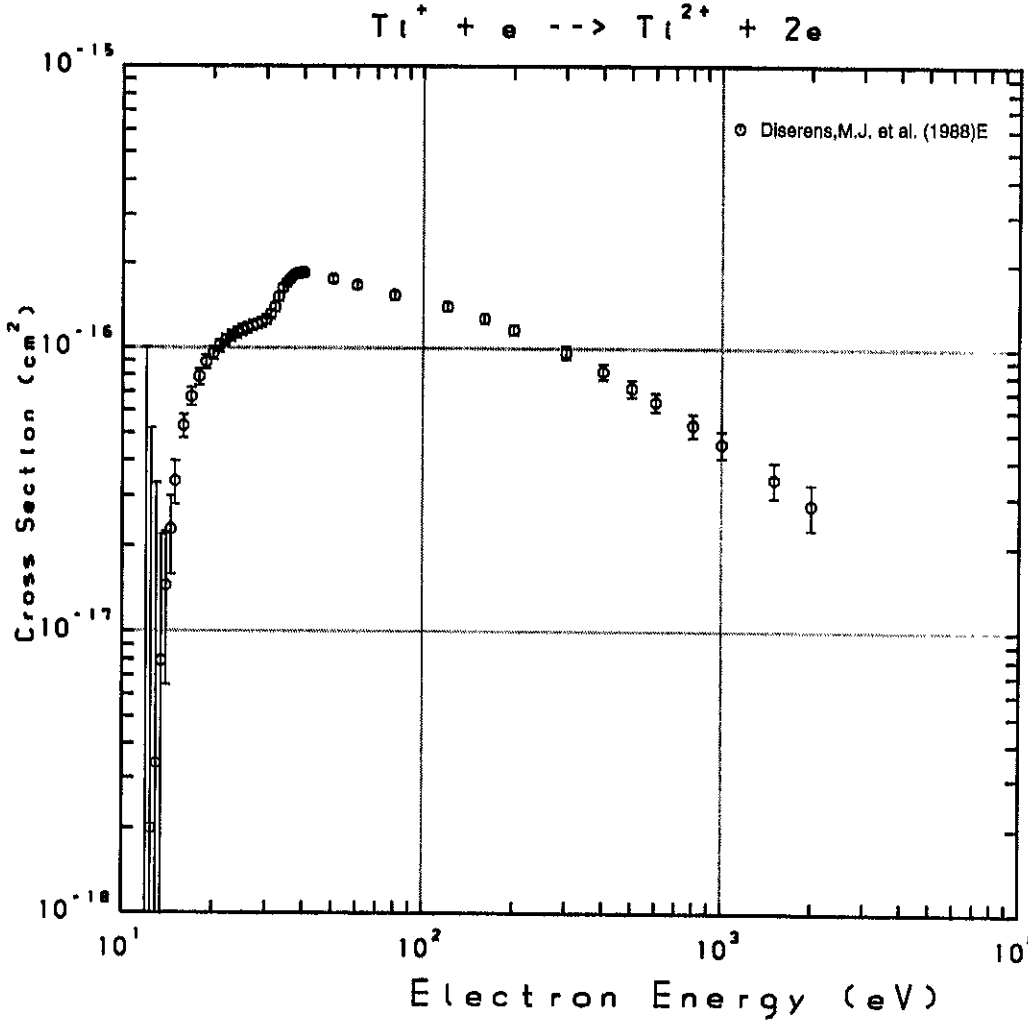

Fig. 176 Ti^{+} → Ti^{2+}

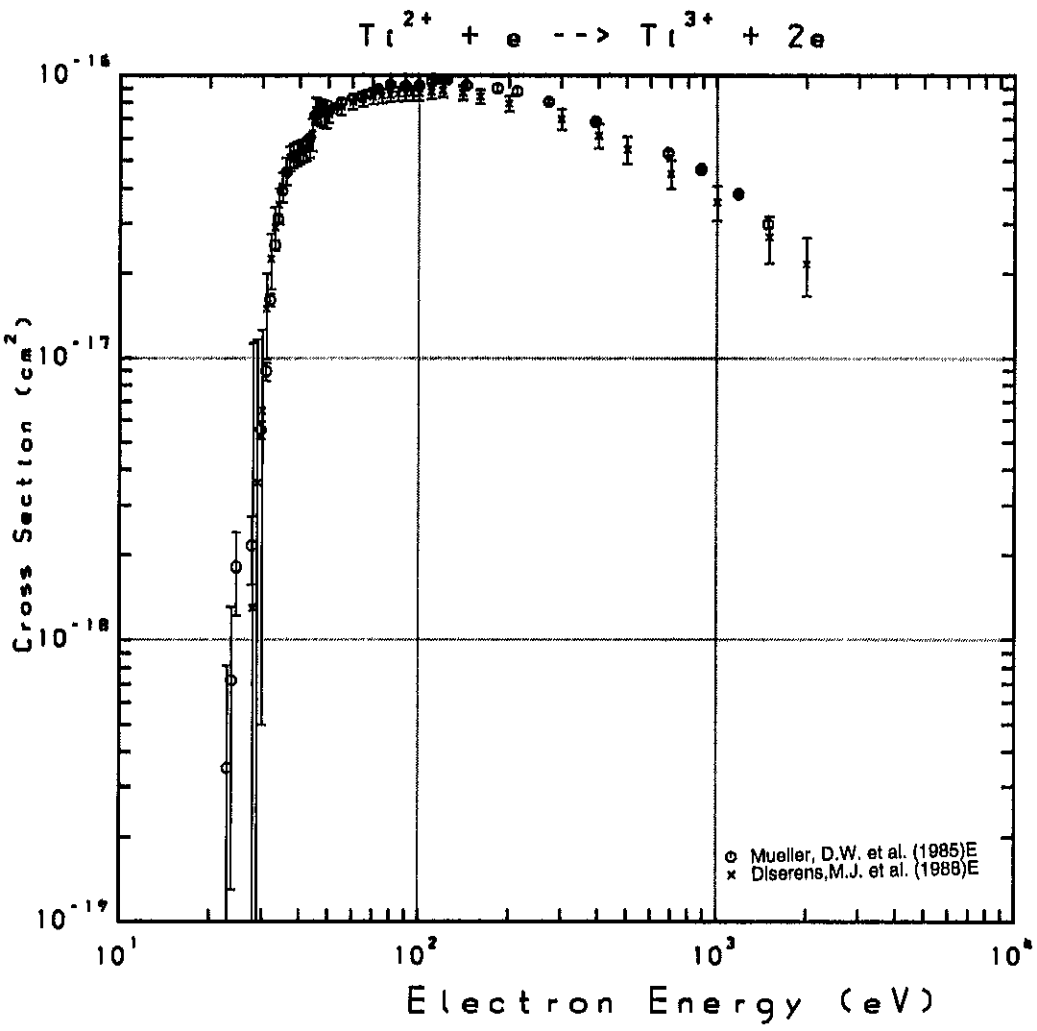

Fig. 177 $Ti^{2+} \rightarrow Ti^{3+}$

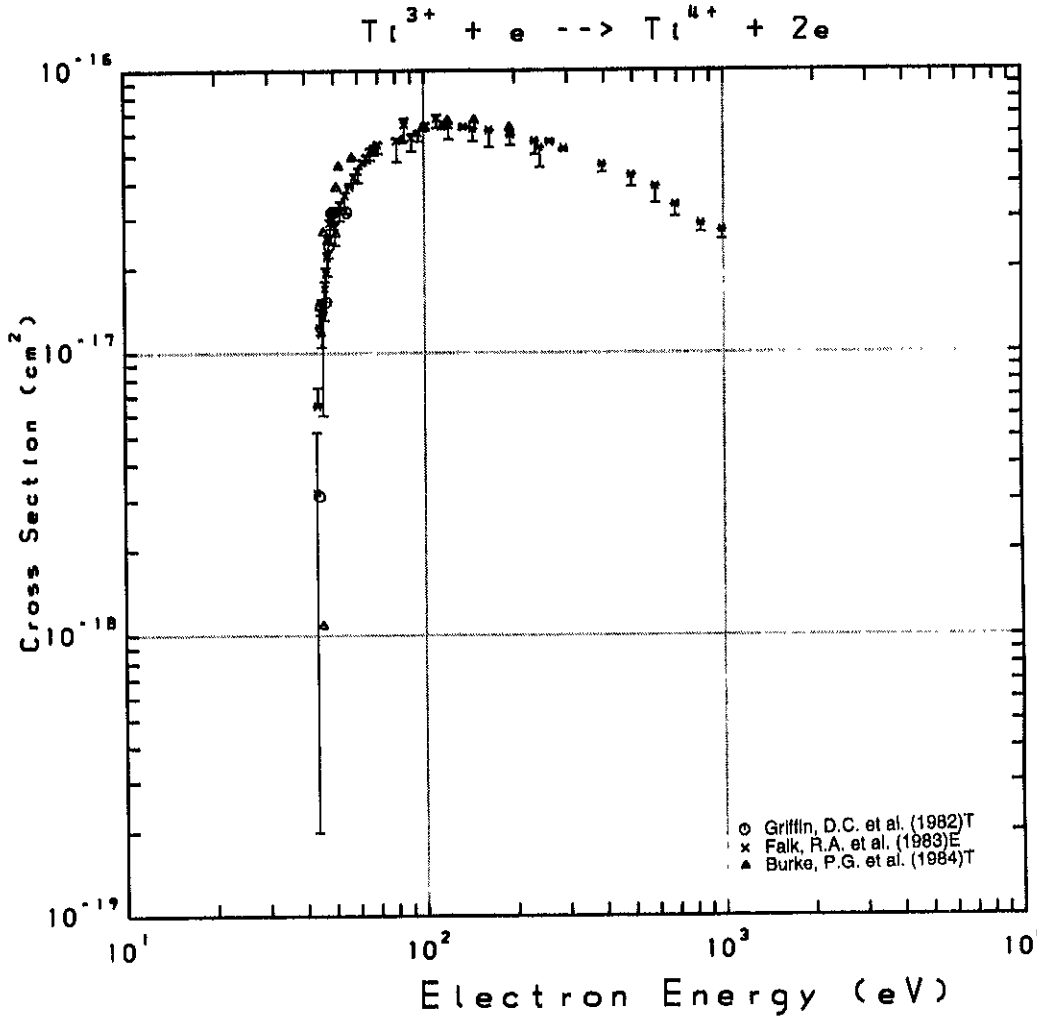

Fig. 178 $Ti^{3+} \rightarrow Ti^{4+}$

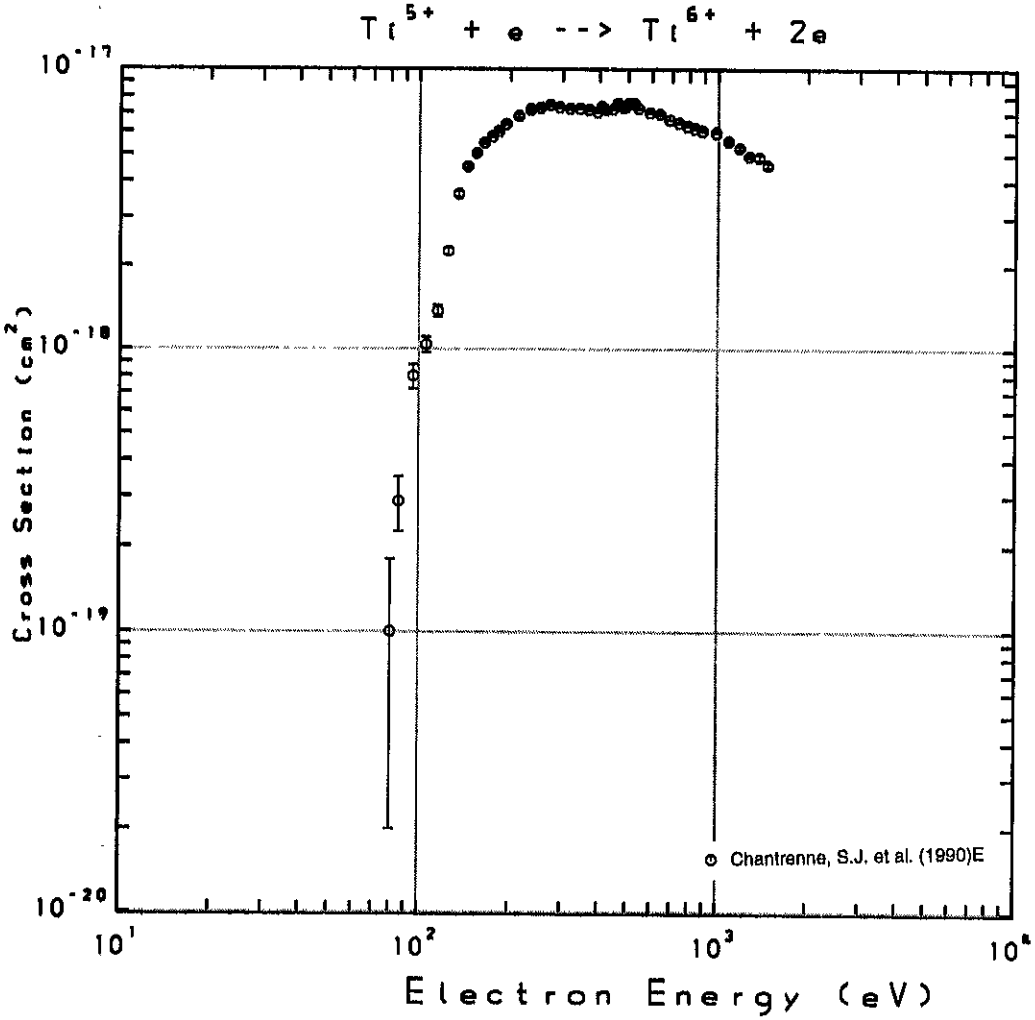

Fig. 179 $Ti^{5+} \rightarrow Ti^{6+}$

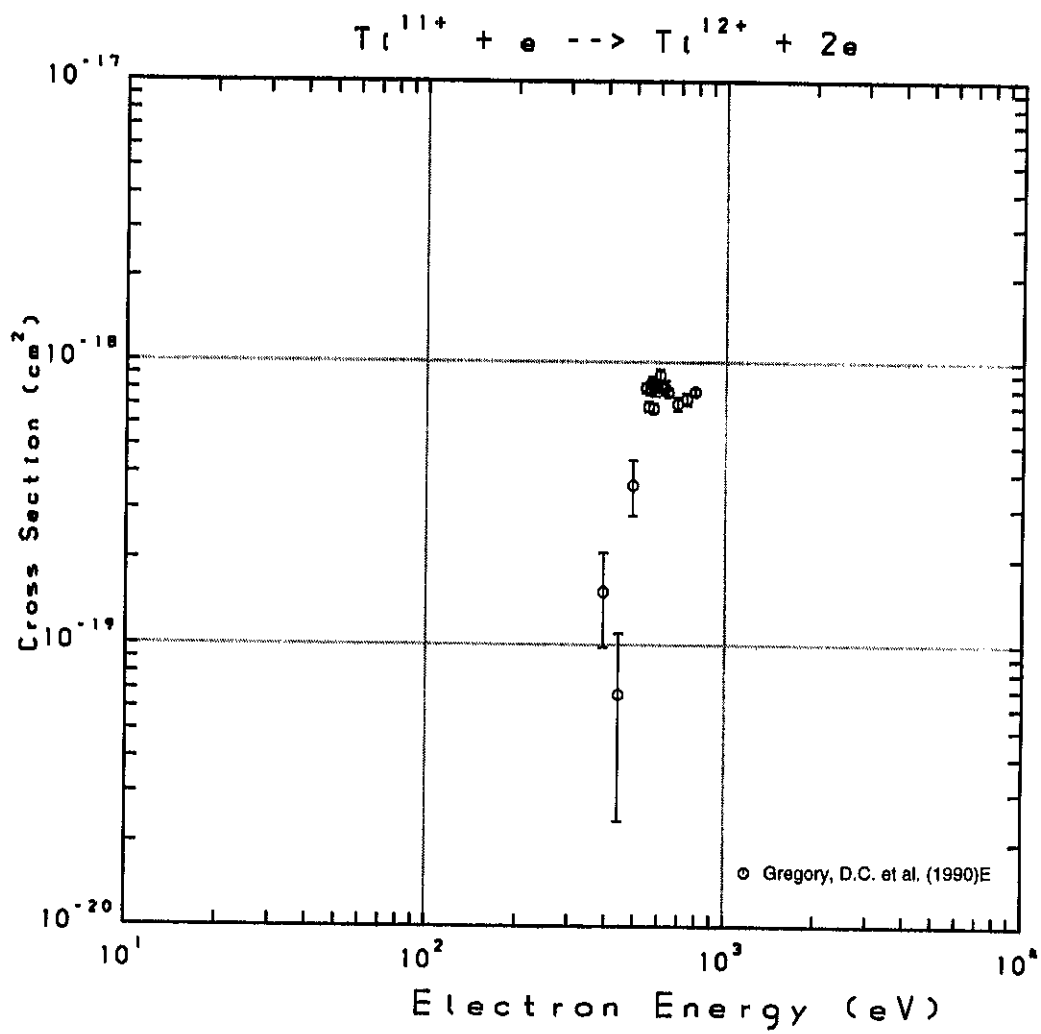

Fig. 180 $Ti^{11+} \rightarrow Ti^{12+}$

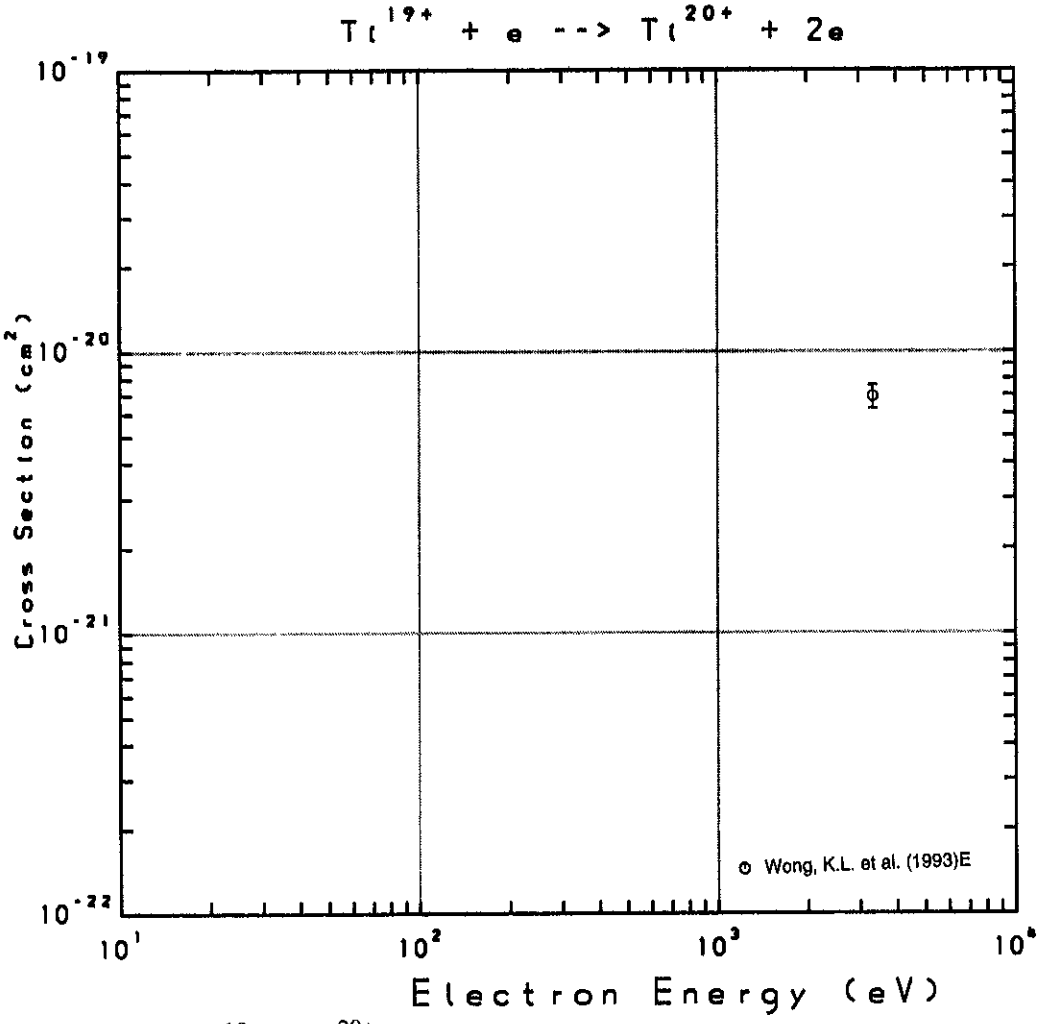

Fig. 181 $Ti^{19+} \rightarrow Ti^{20+}$

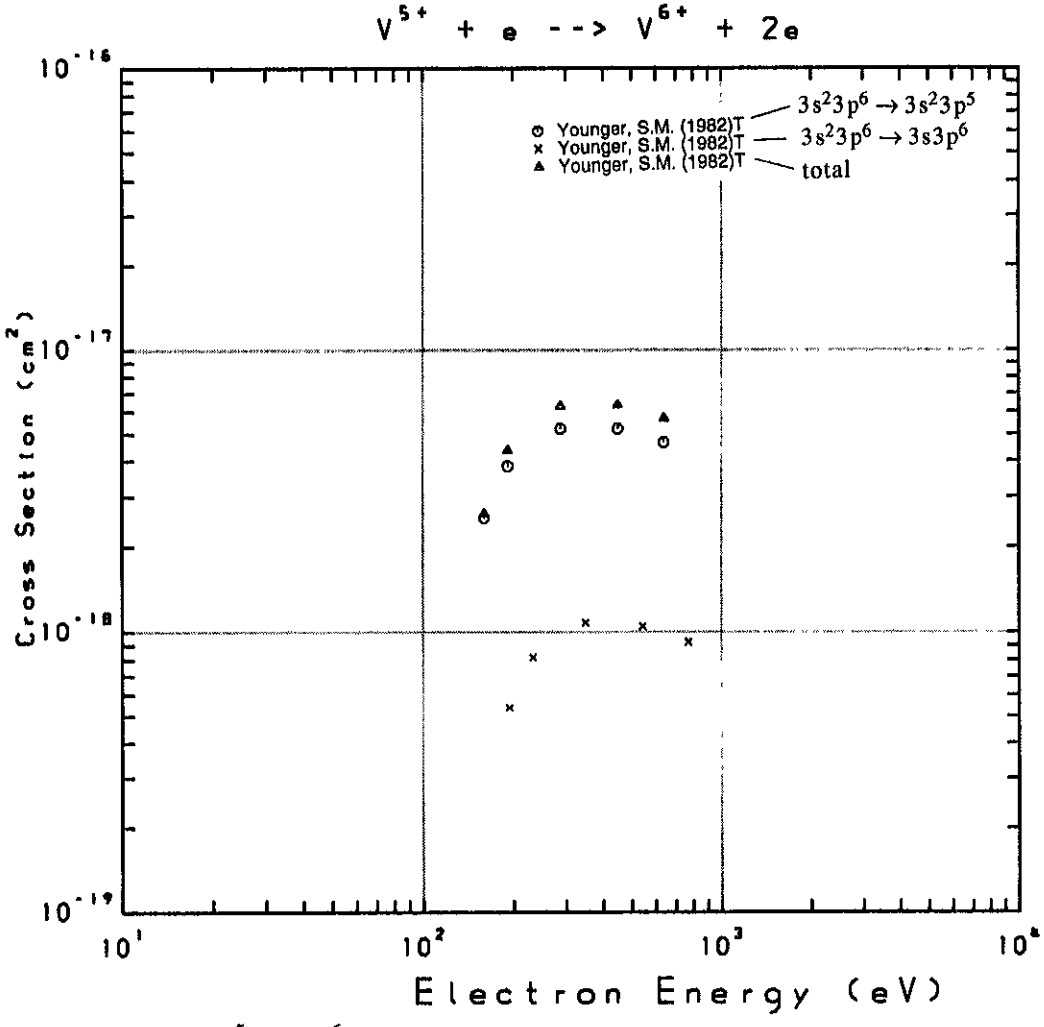

Fig. 182 $V^{5+} \rightarrow V^{6+}$

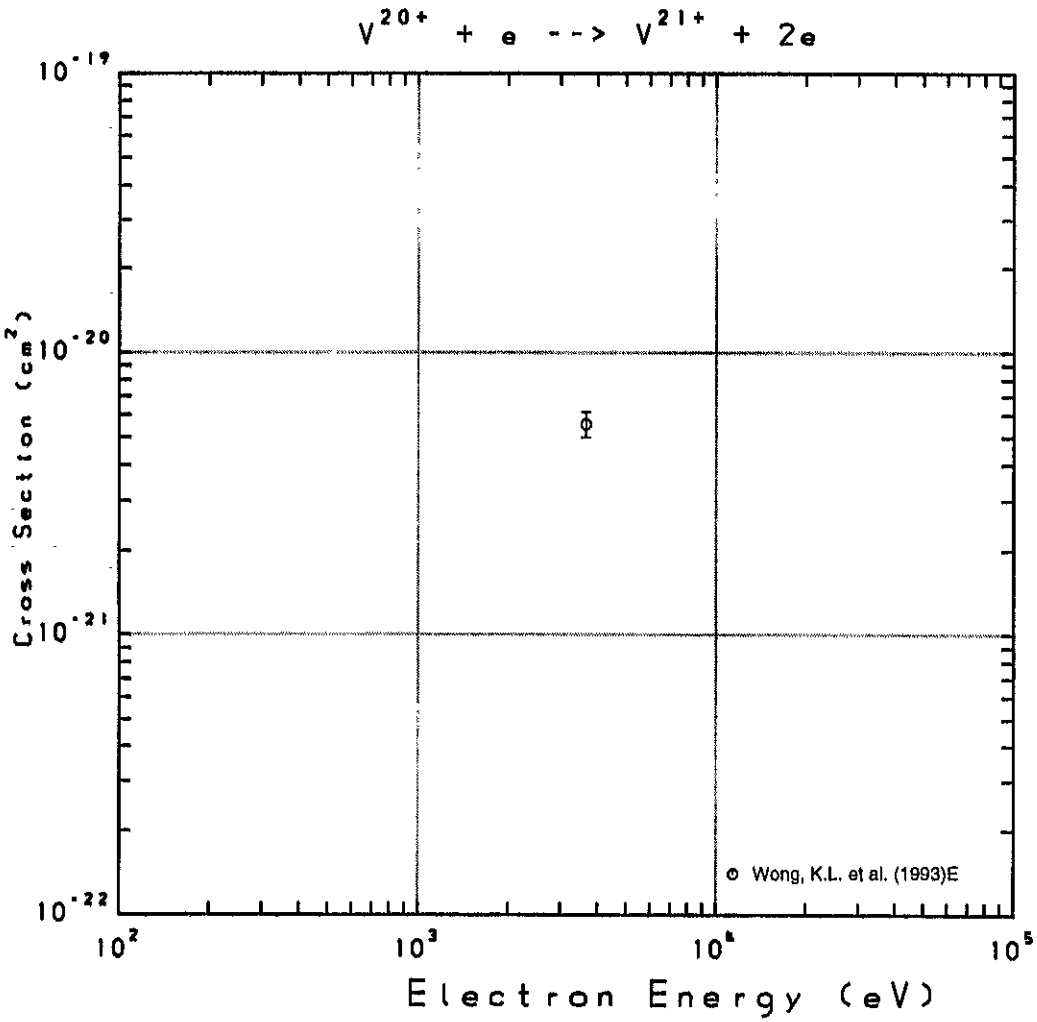

Fig. 183 $V^{20+} \rightarrow V^{21+}$

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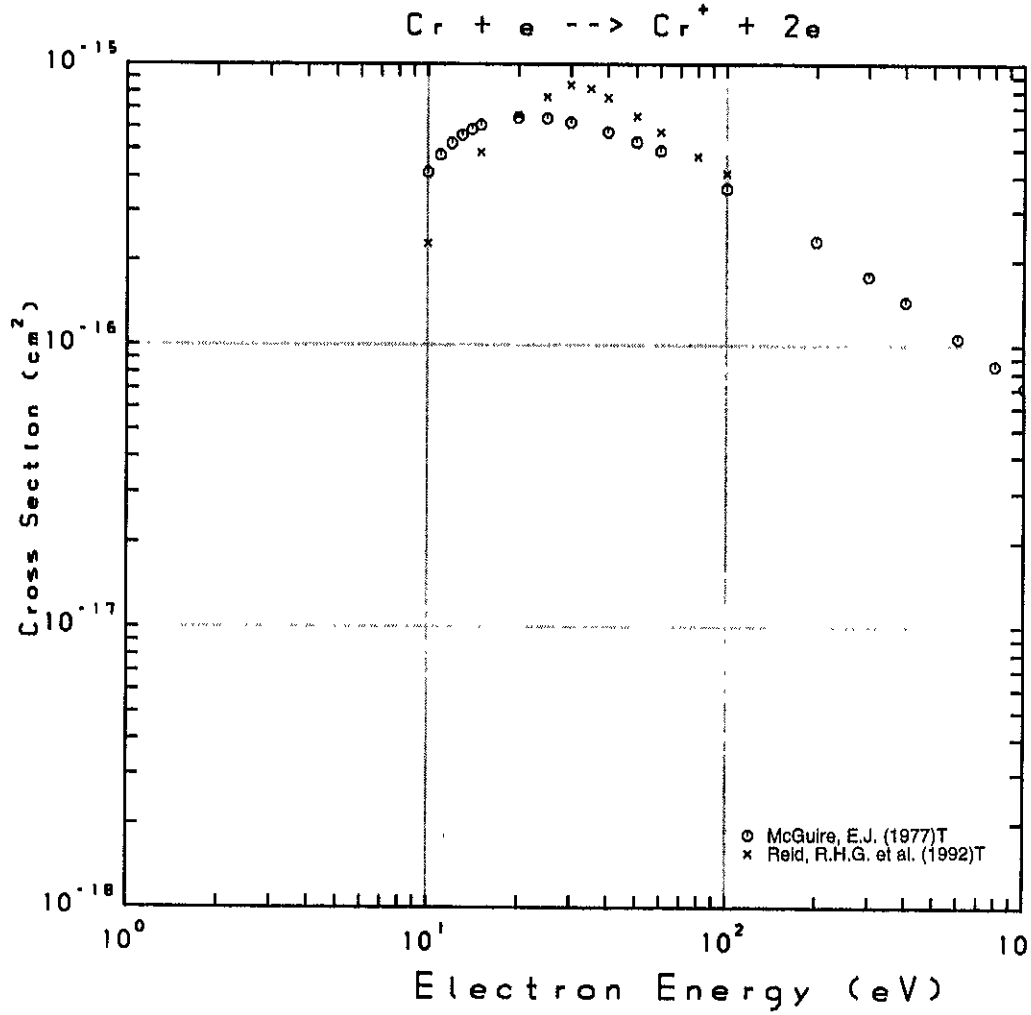

Fig. 184 $Cr \rightarrow Cr^{+}$

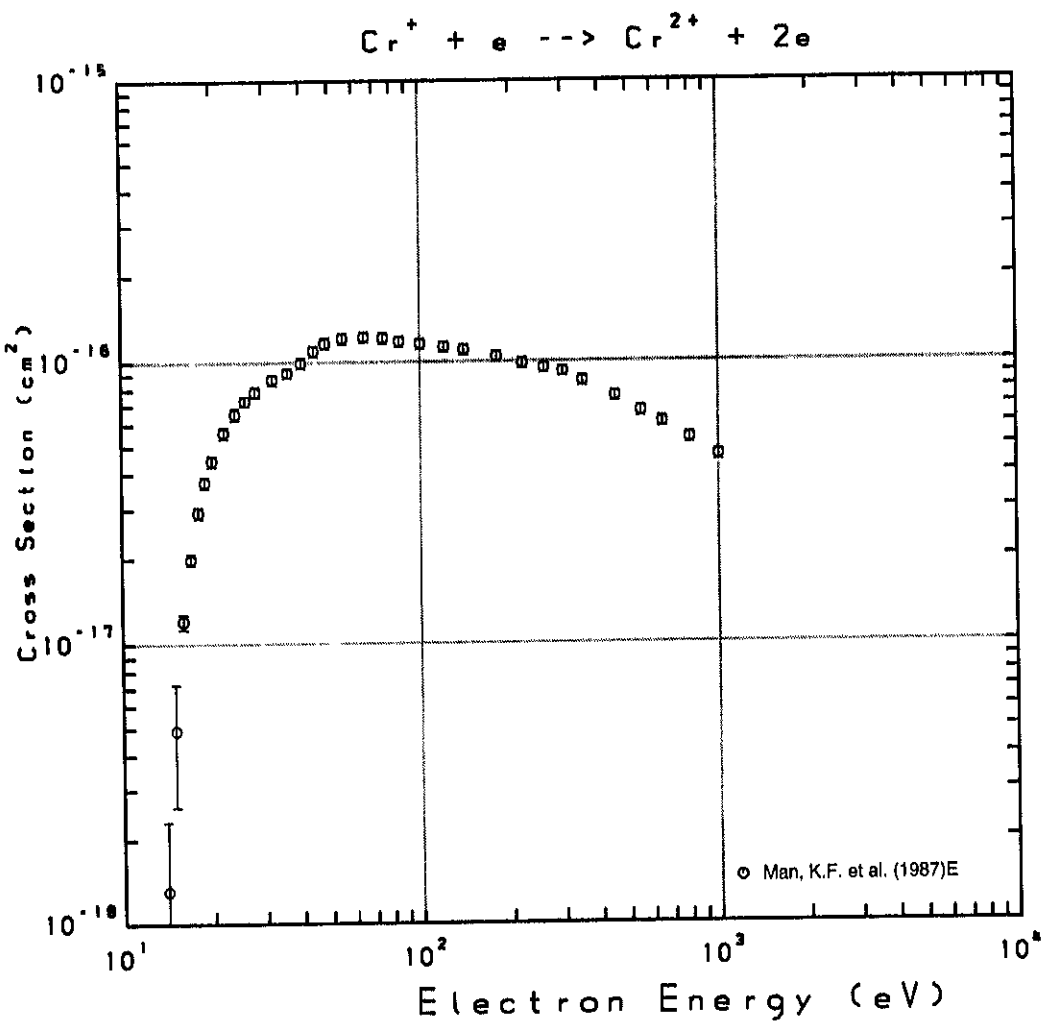

Fig. 185 $Cr^{+} \rightarrow Cr^{2+}$

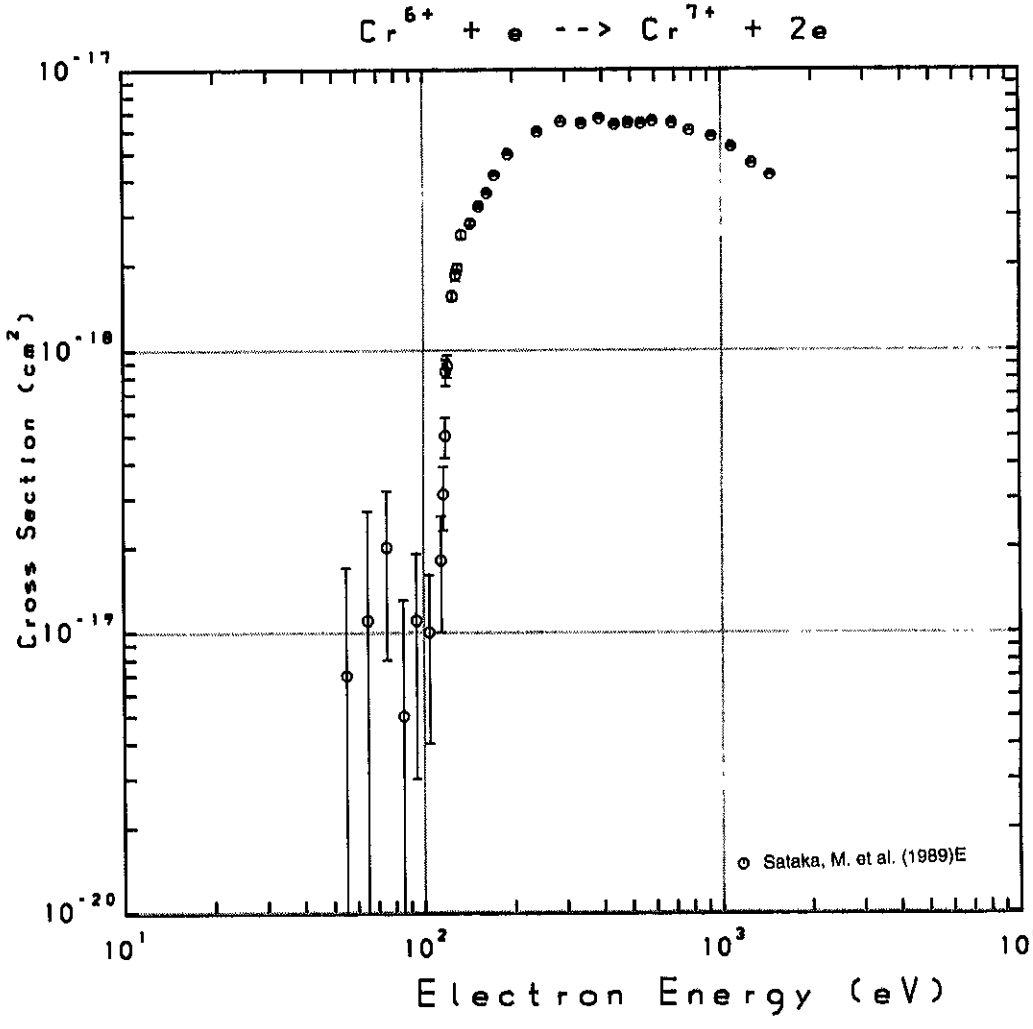

Fig. 186 $Cr^{6+} \rightarrow Cr^{7+}$

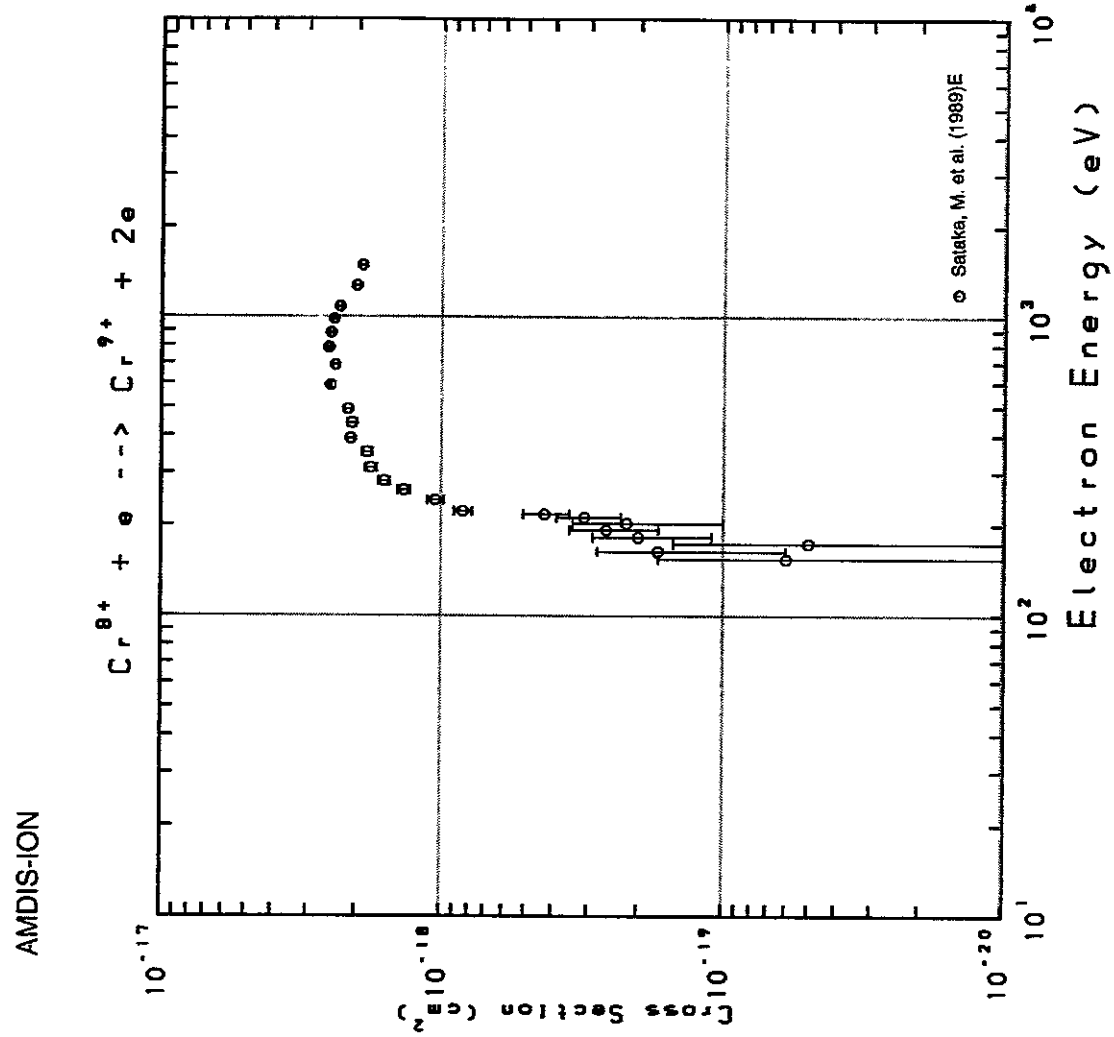

Fig. 188 $Cr^{8+} \rightarrow Cr^{9+}$

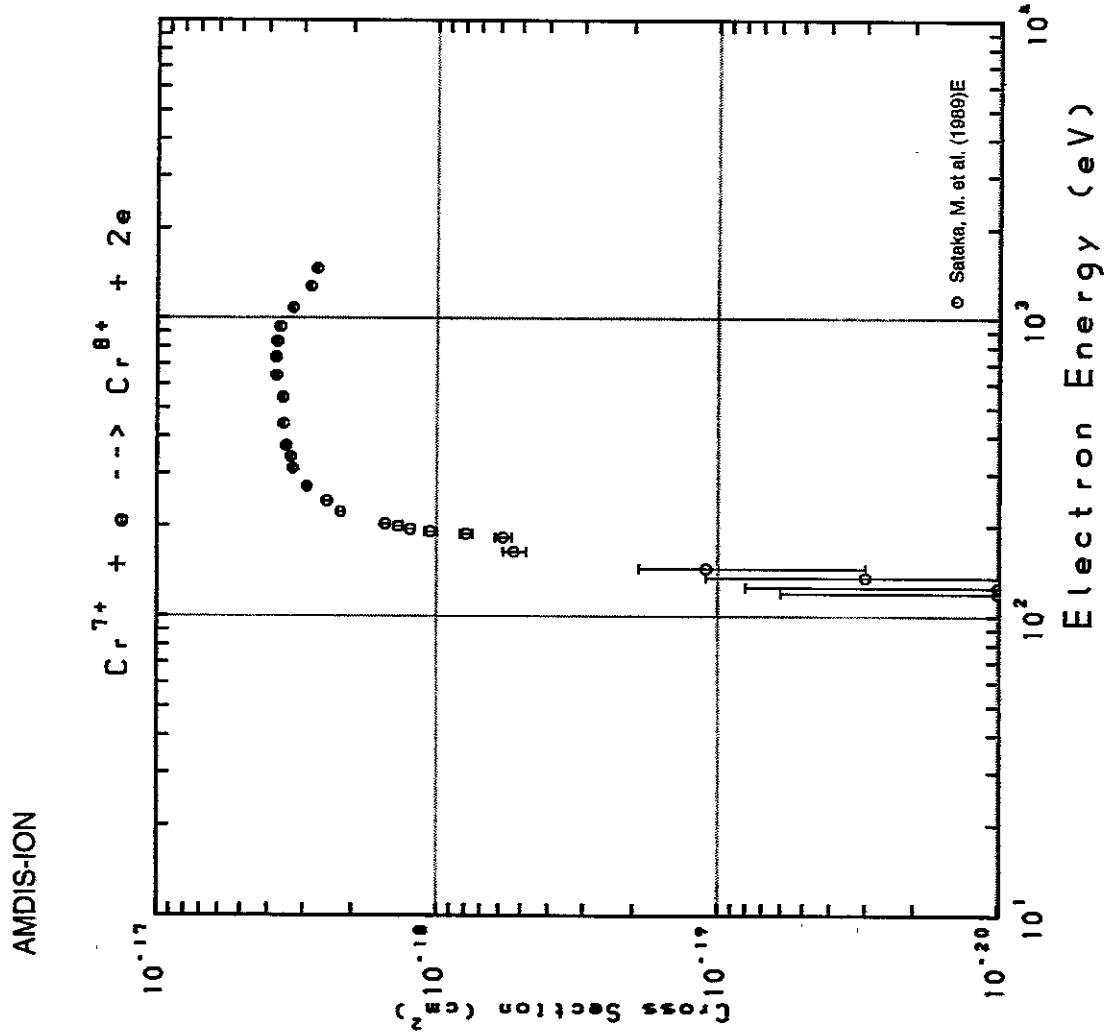

Fig. 187 $Cr^{7+} \rightarrow Cr^{8+}$

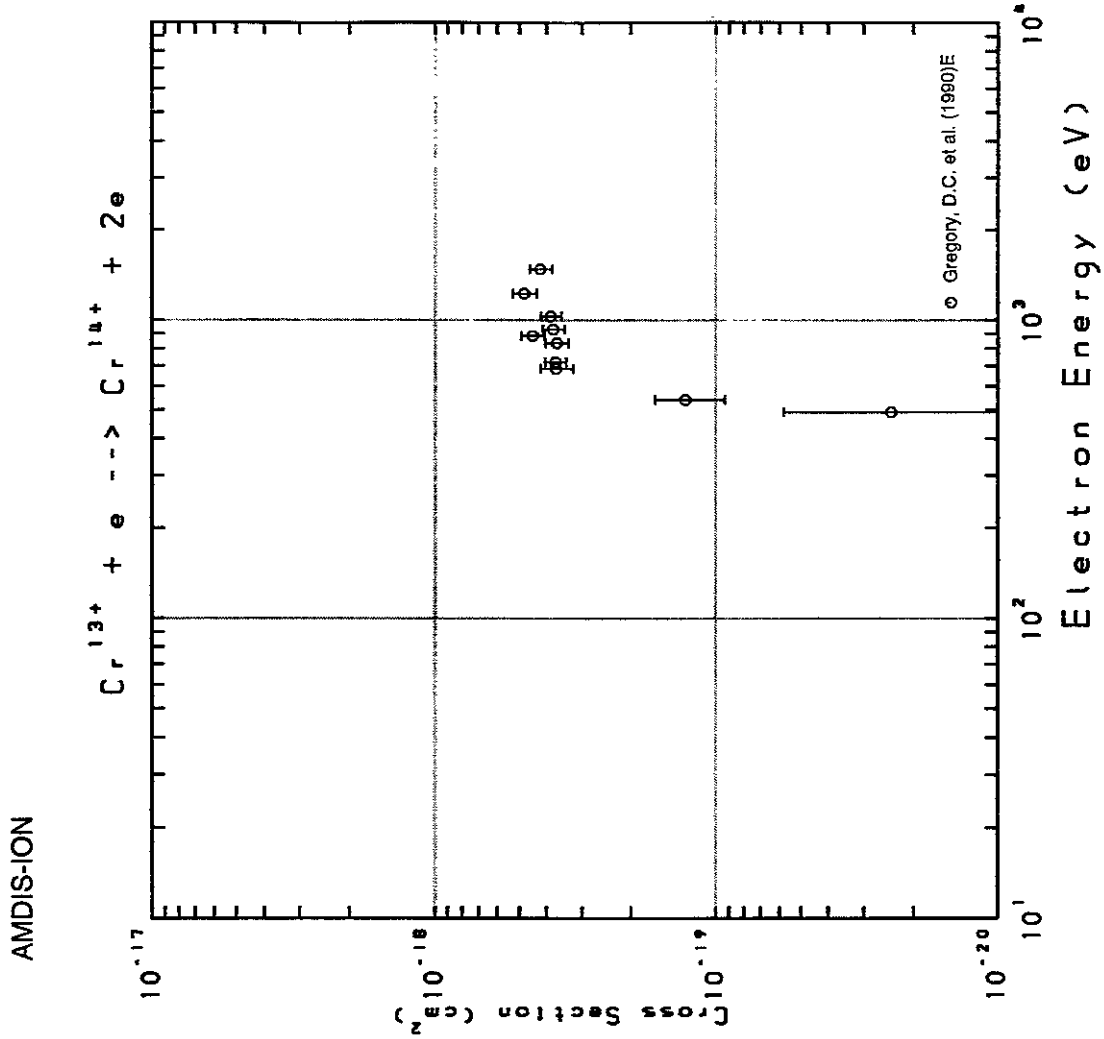

Fig. 190 $Cr^{13+} \rightarrow Cr^{14+}$

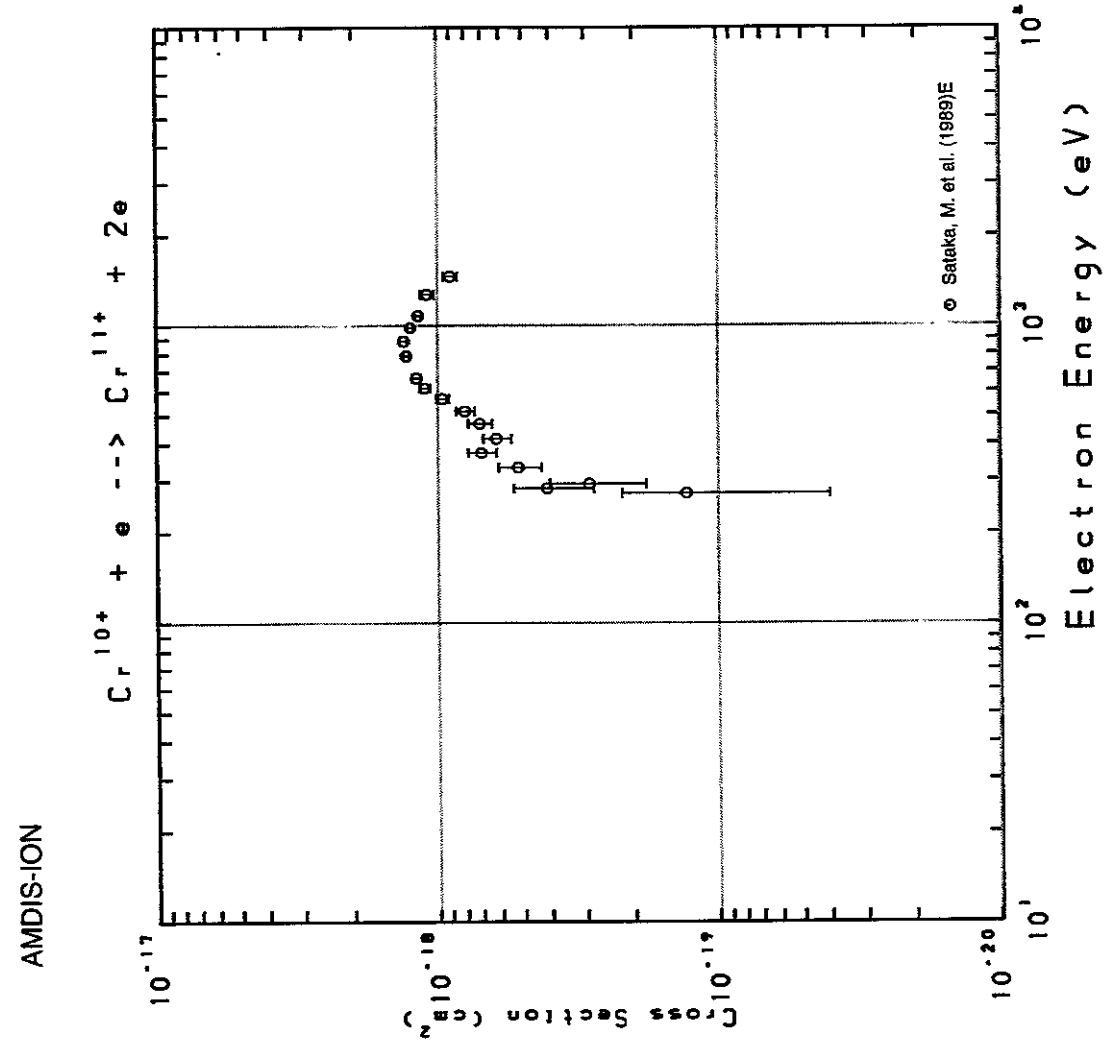

Fig. 189 $Cr^{10+} \rightarrow Cr^{11+}$

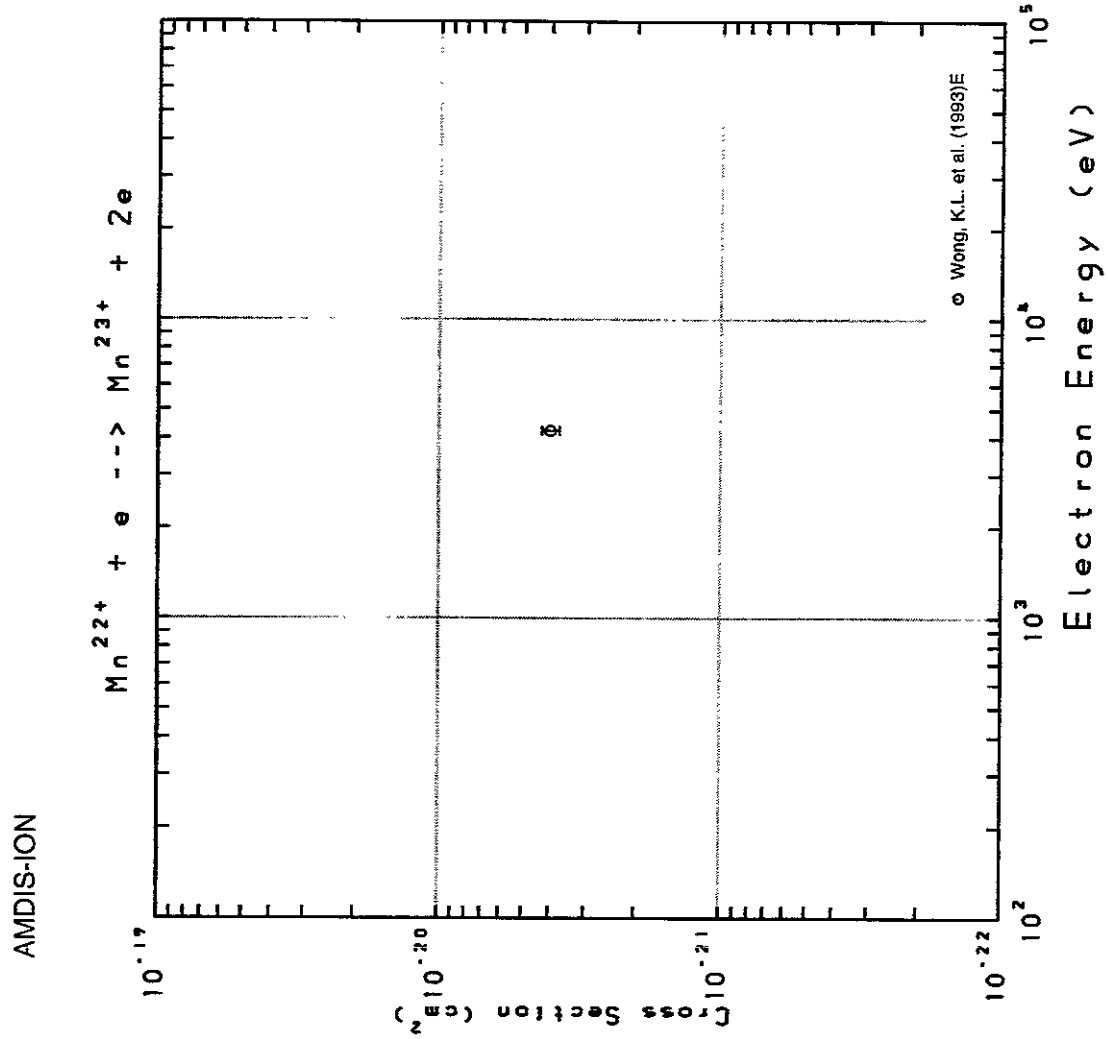

Fig. 191 $Cr^{21+} \rightarrow Cr^{22+}$

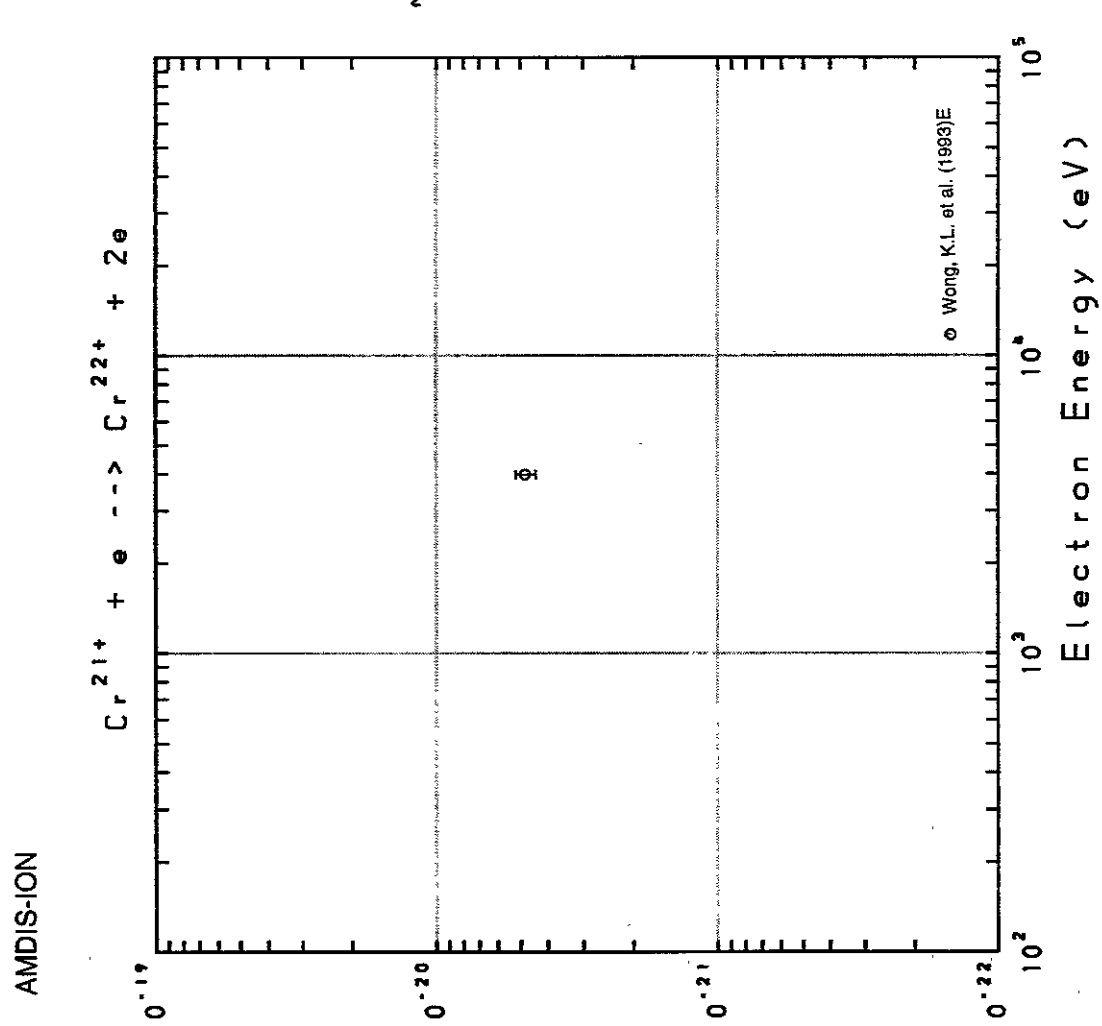

Fig. 192 $Mn^{22+} \rightarrow Mn^{23+}$

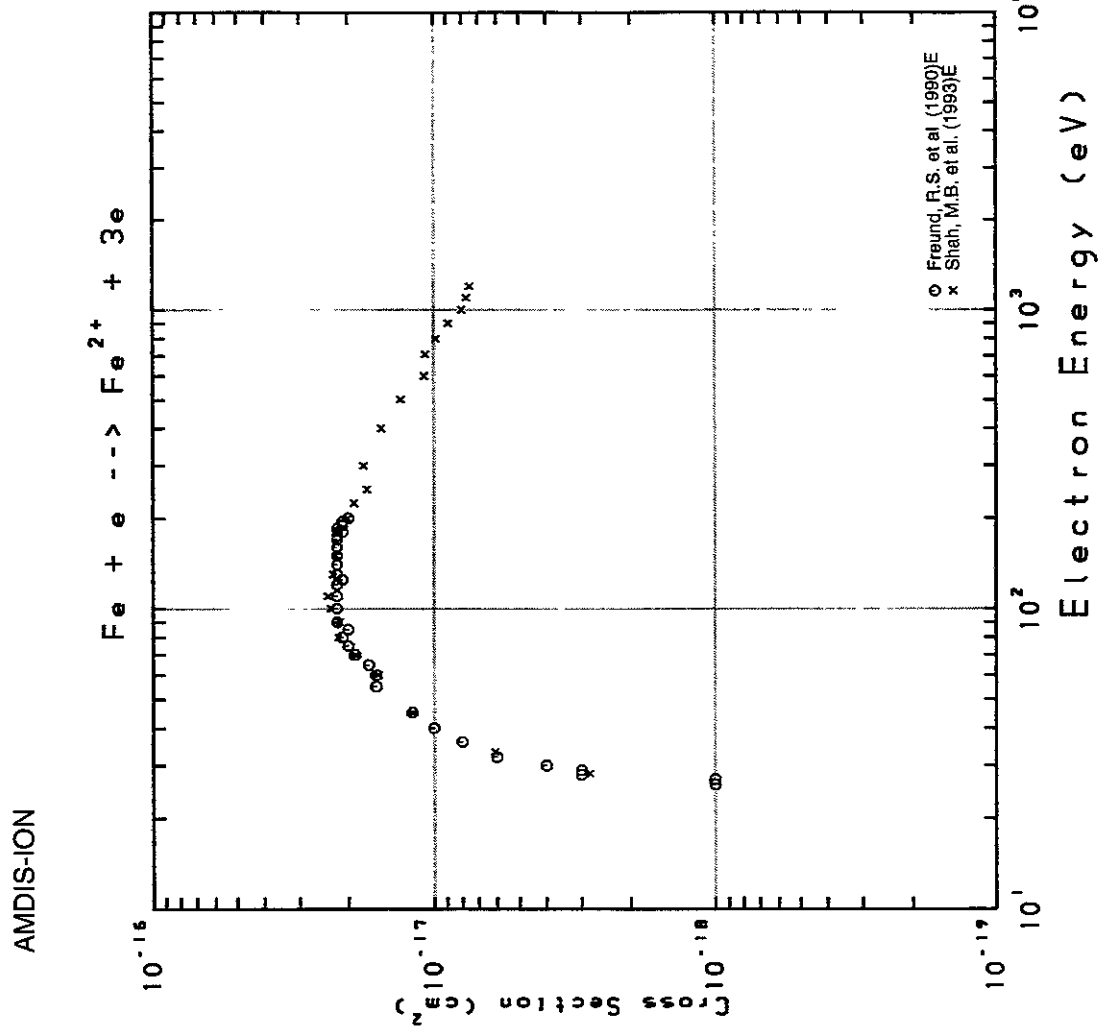

Fig. 194 Fe → Fe^{2+}

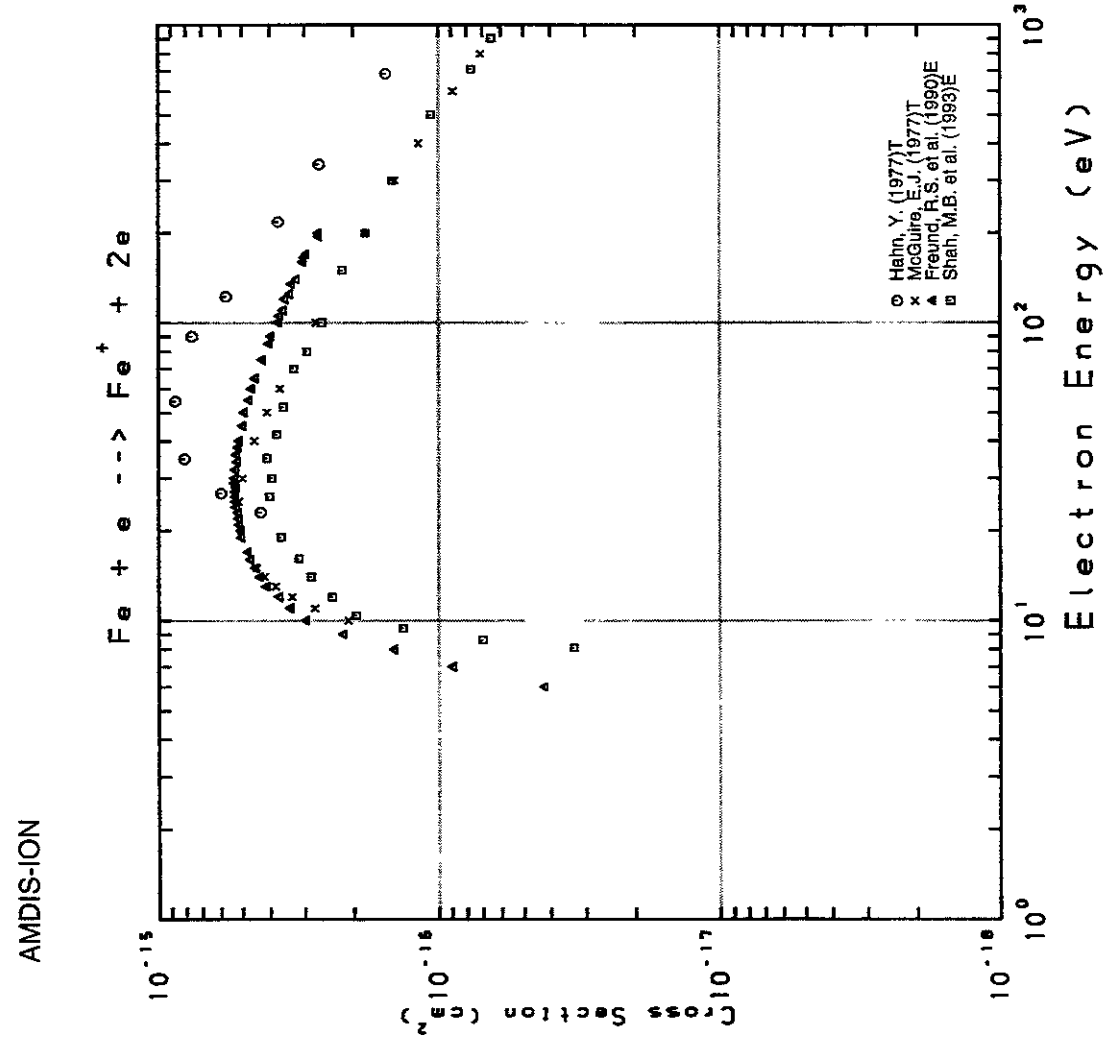

Fig. 193 Fe → Fe^{+}

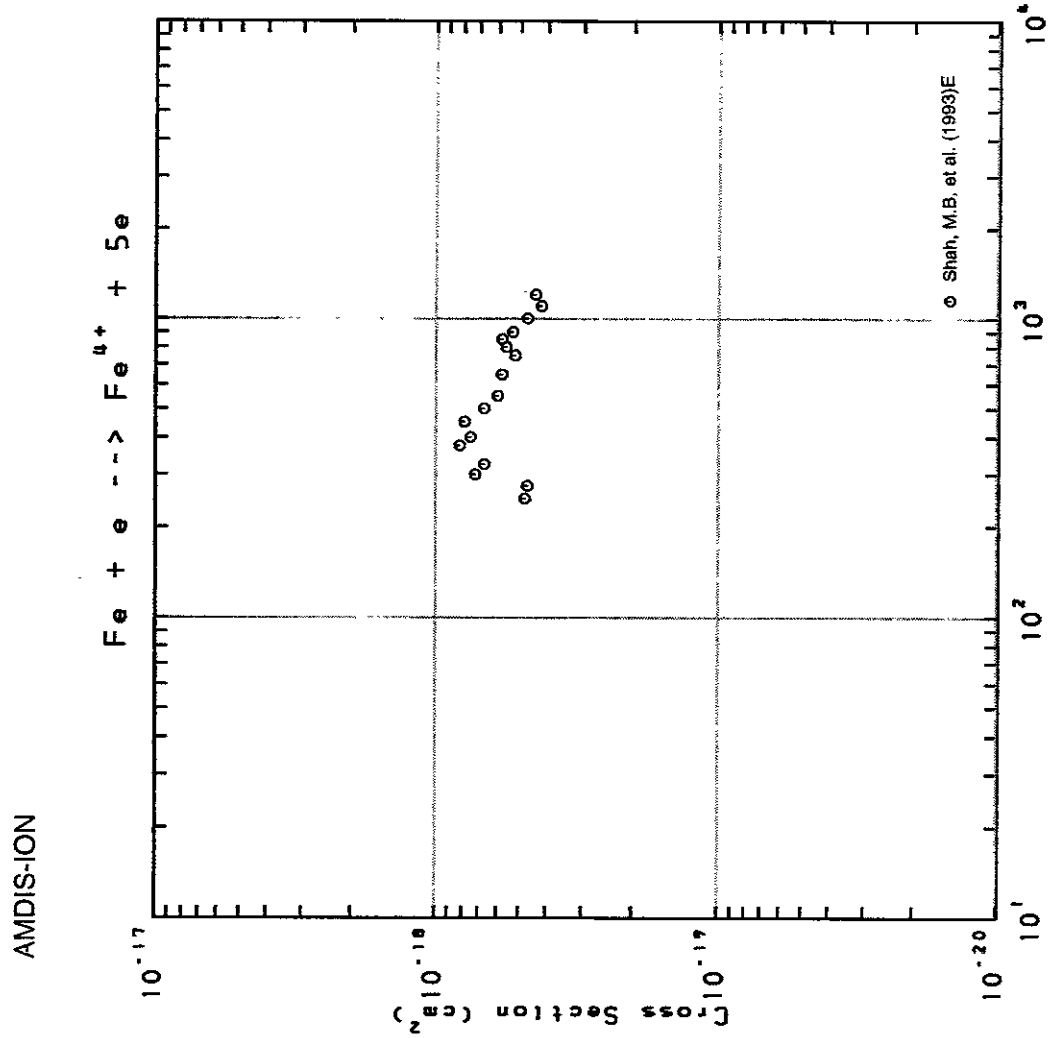

Fig. 196 Fe → Fe^{4+}

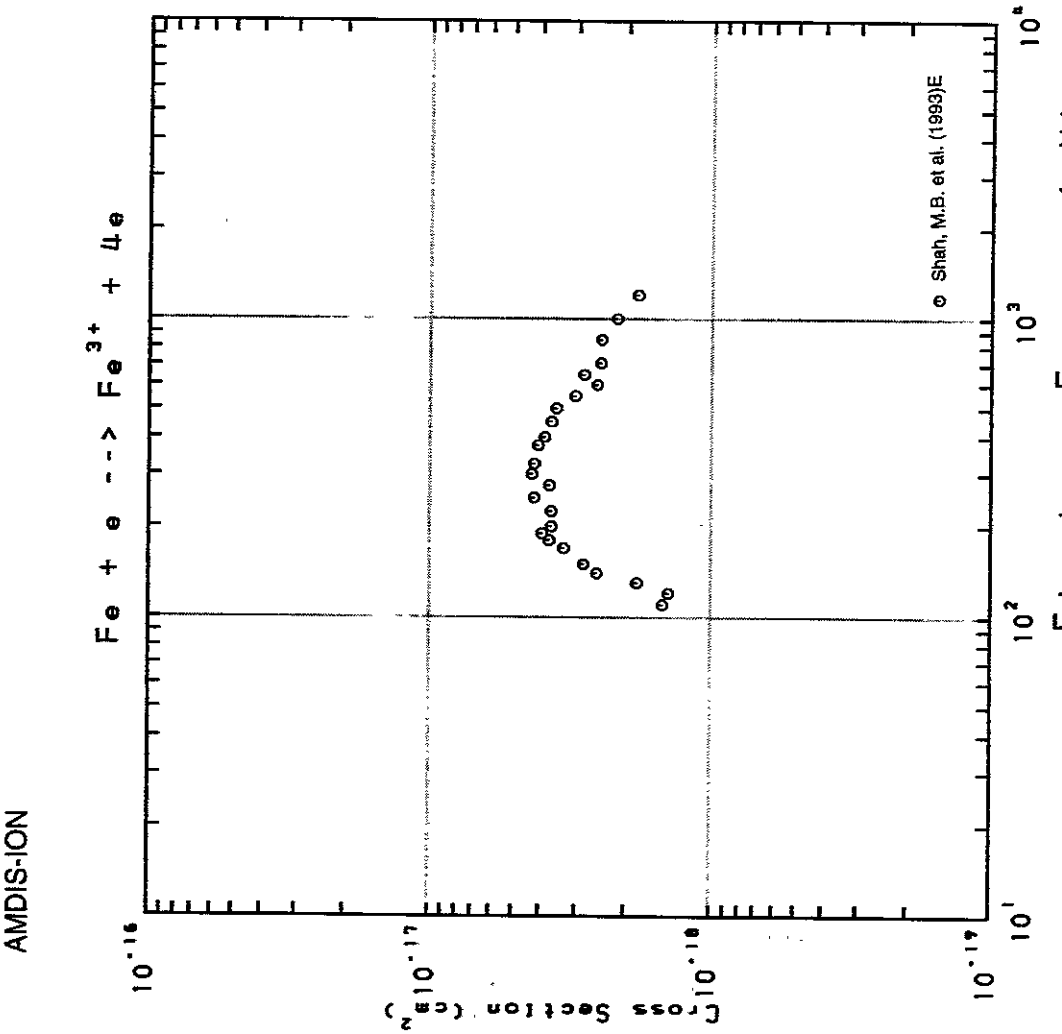

Fig. 195 Fe → Fe^{3+}

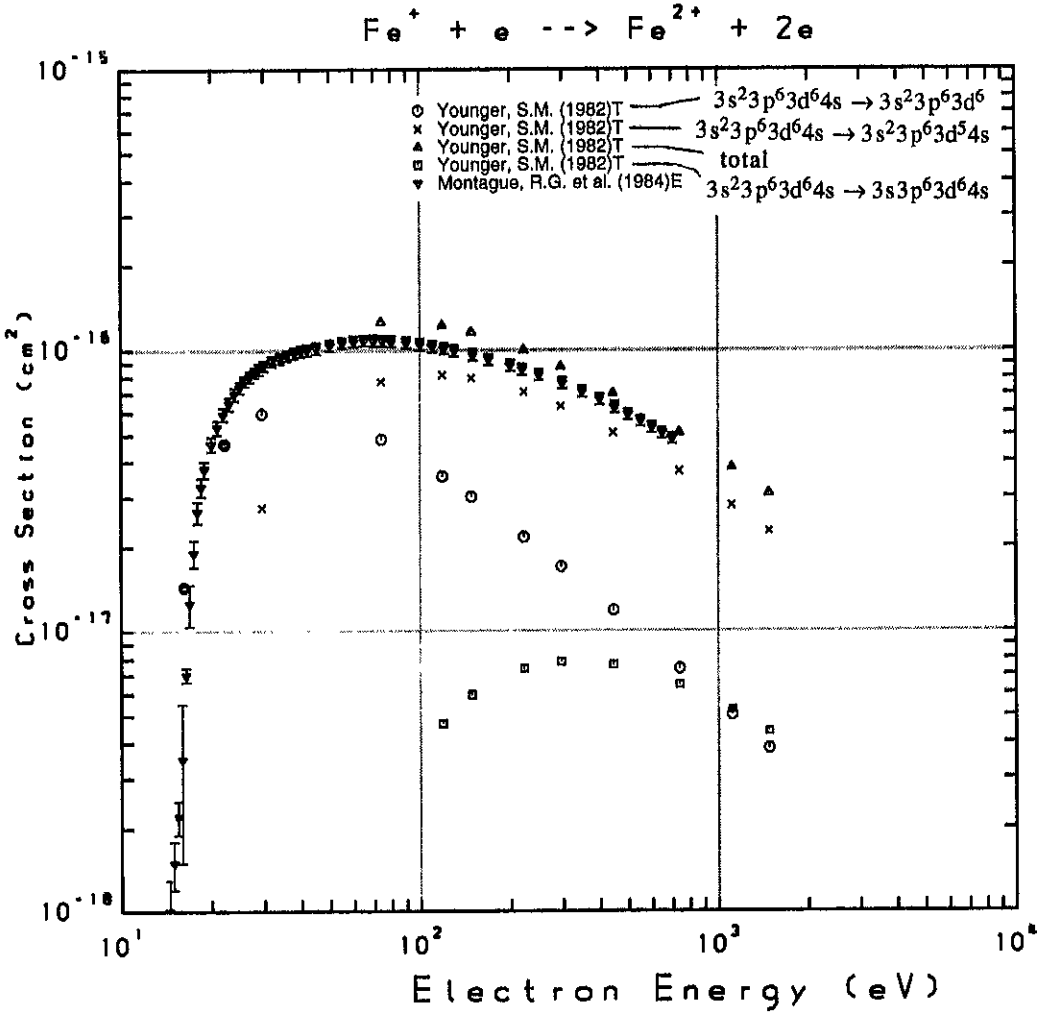

Fig. 197 $Fe^{+} \rightarrow Fe^{2+}$

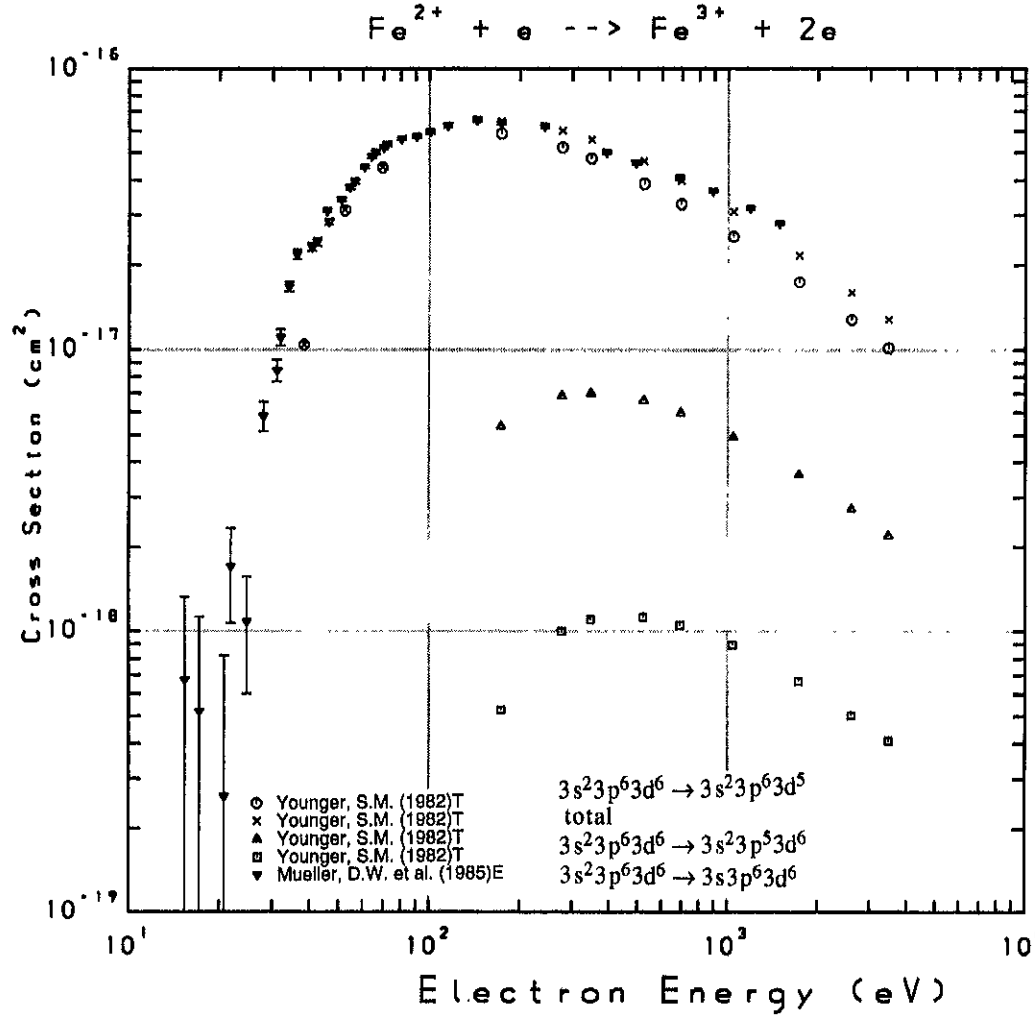

Fig. 198 $Fe^{2+} \rightarrow Fe^{3+}$

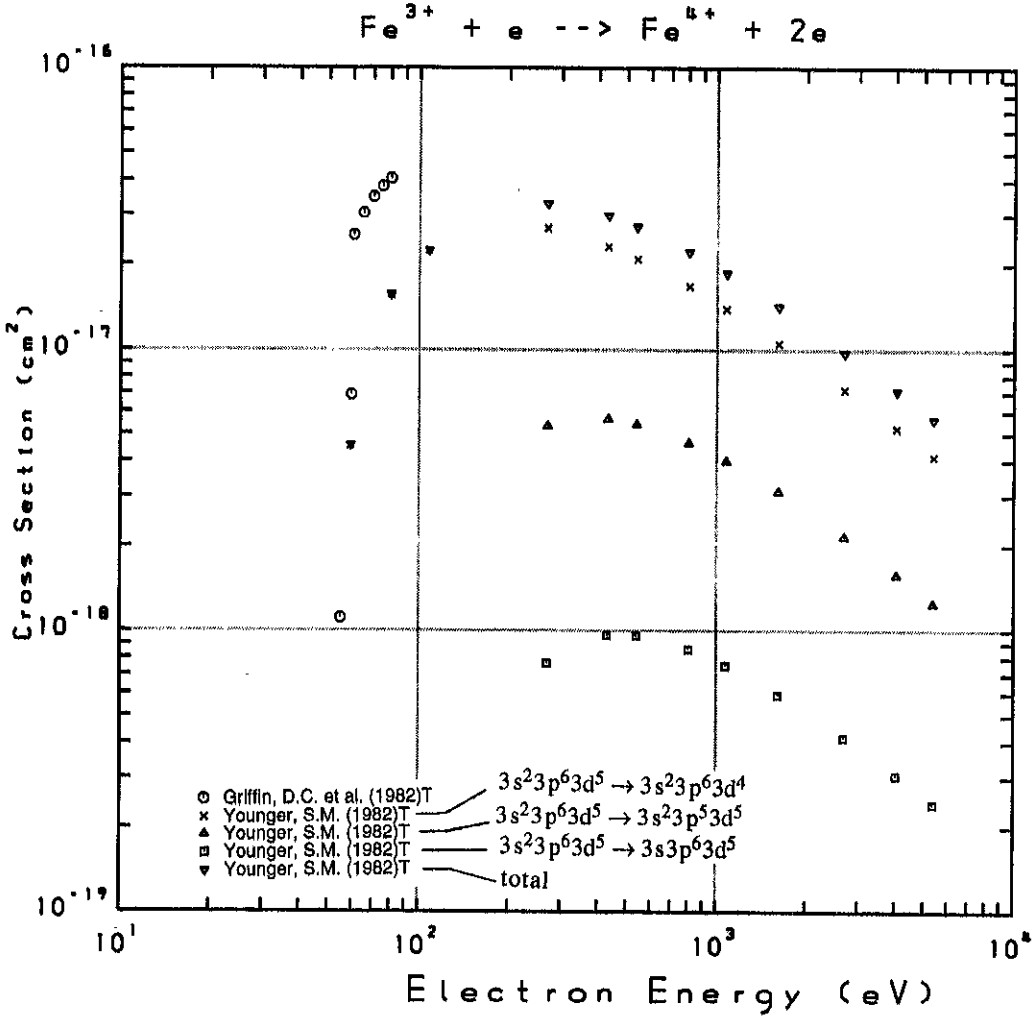

Fig. 199 $Fe^{3+} \rightarrow Fe^{4+}$

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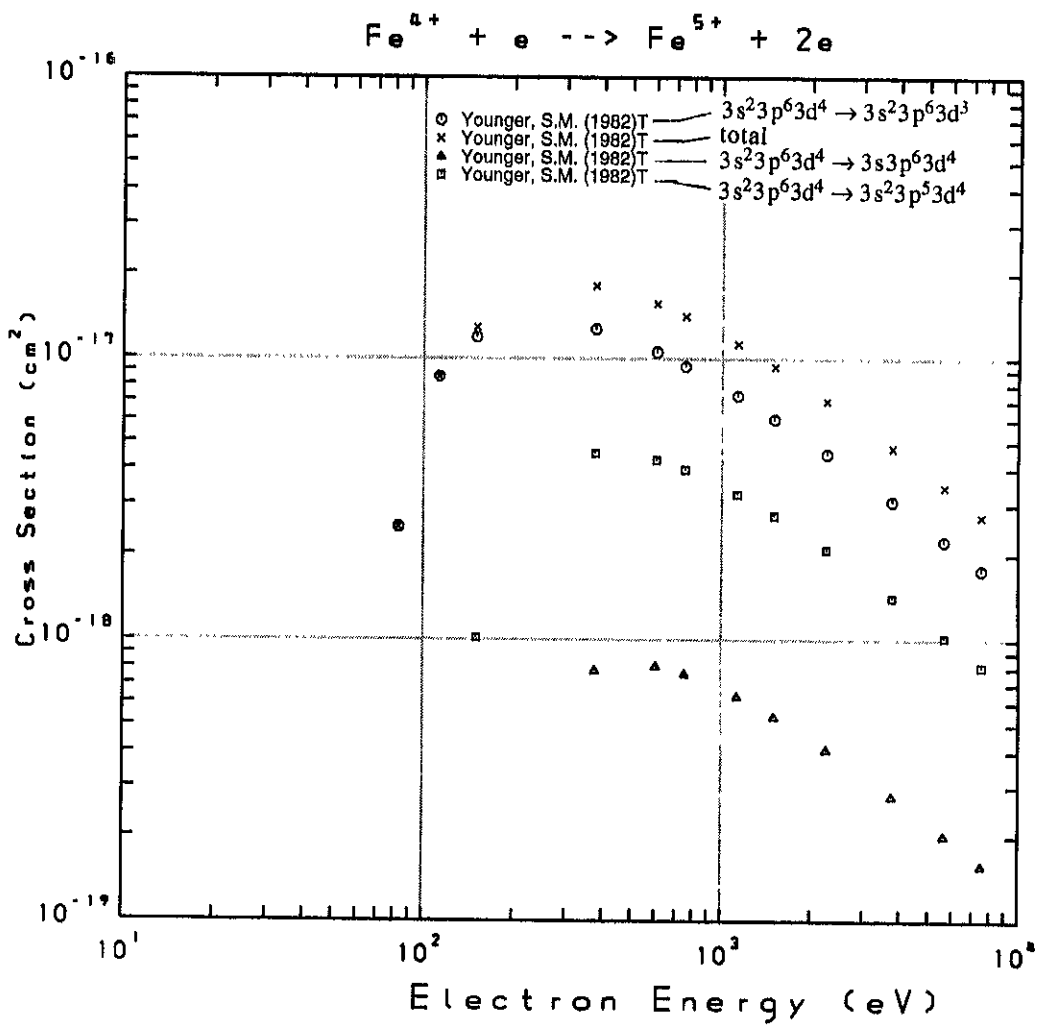

Fig. 200 $Fe^{4+} \rightarrow Fe^{5+}$

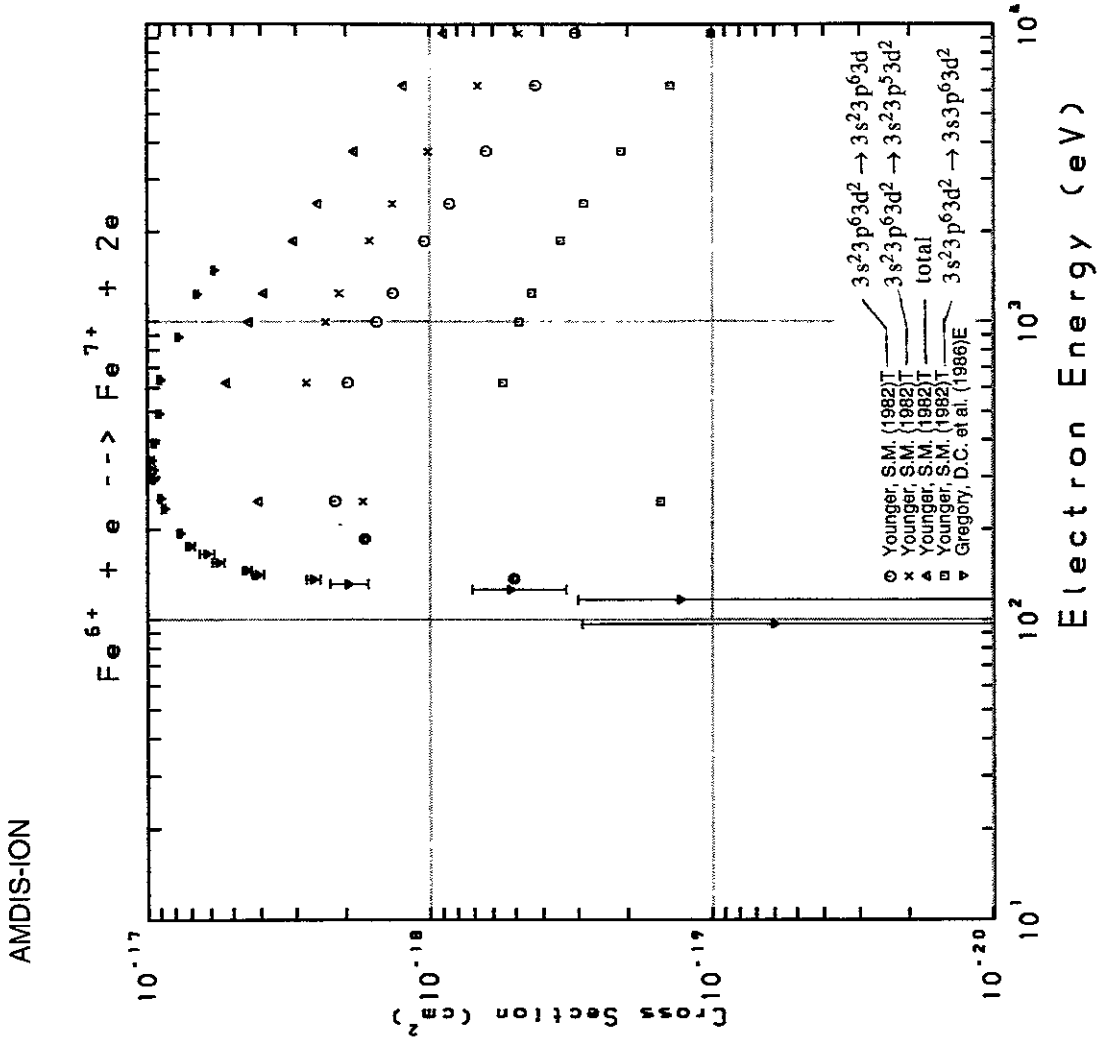

Fig. 202 $Fe^{6+} \rightarrow Fe^{7+}$

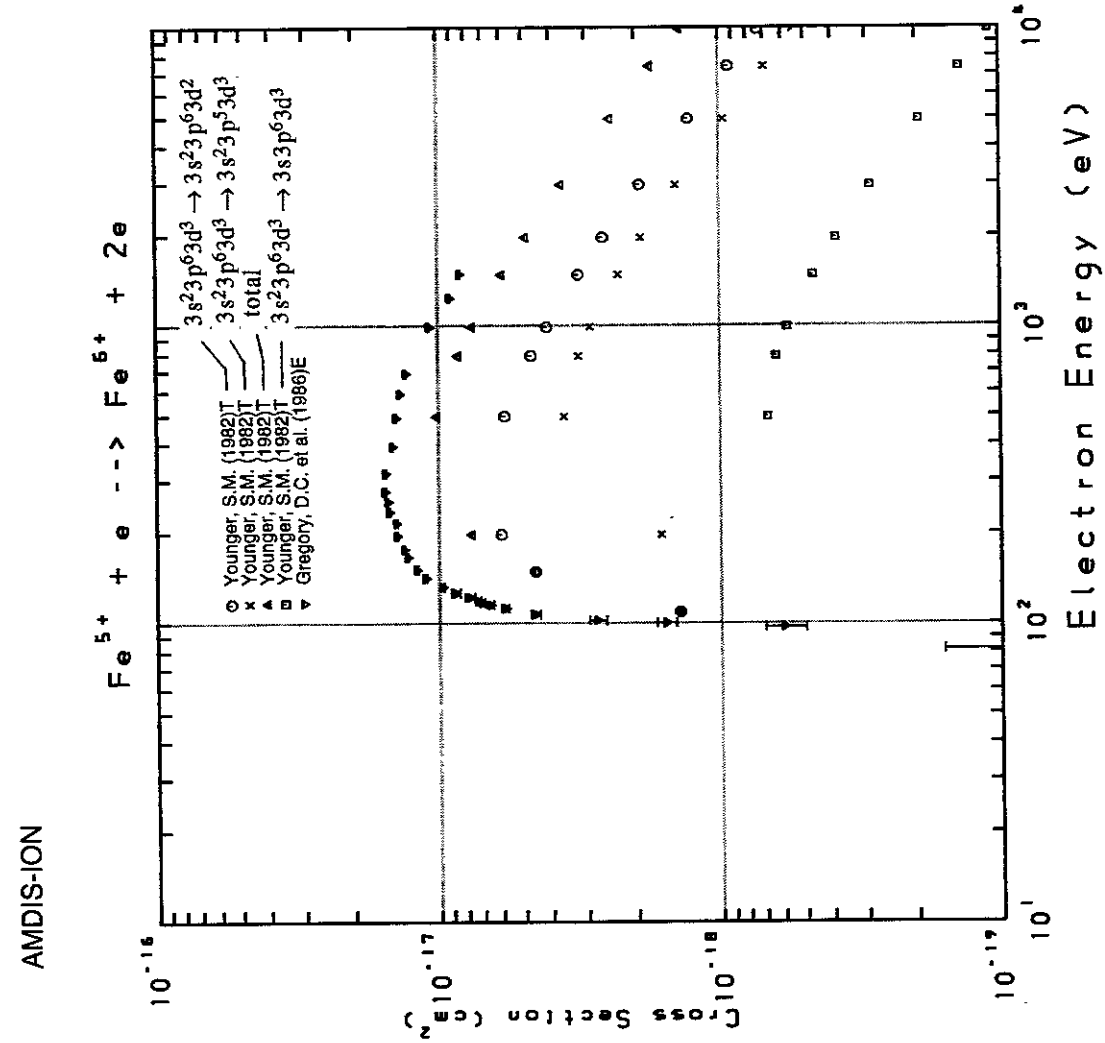

Fig. 201 $Fe^{5+} \rightarrow Fe^{6+}$

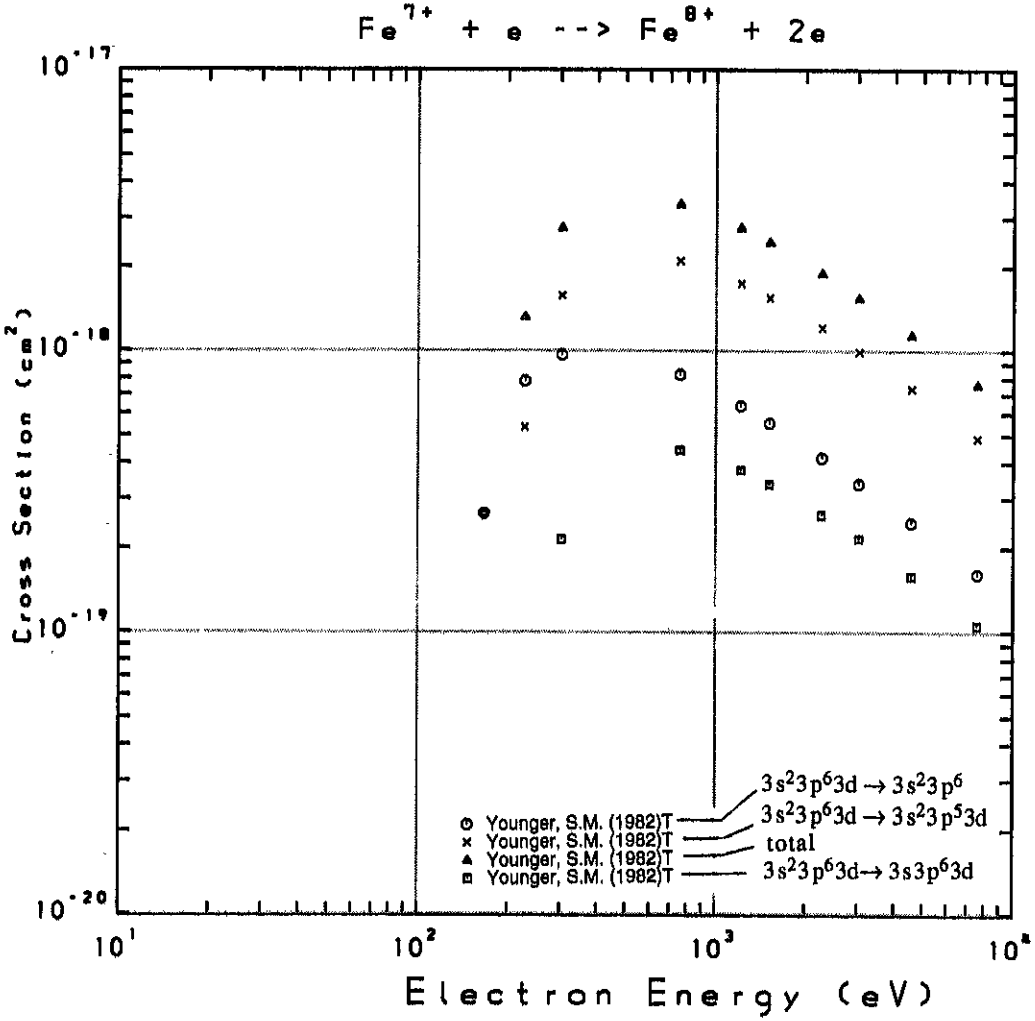

Fig. 203 $Fe^{7+} \rightarrow Fe^{8+}$

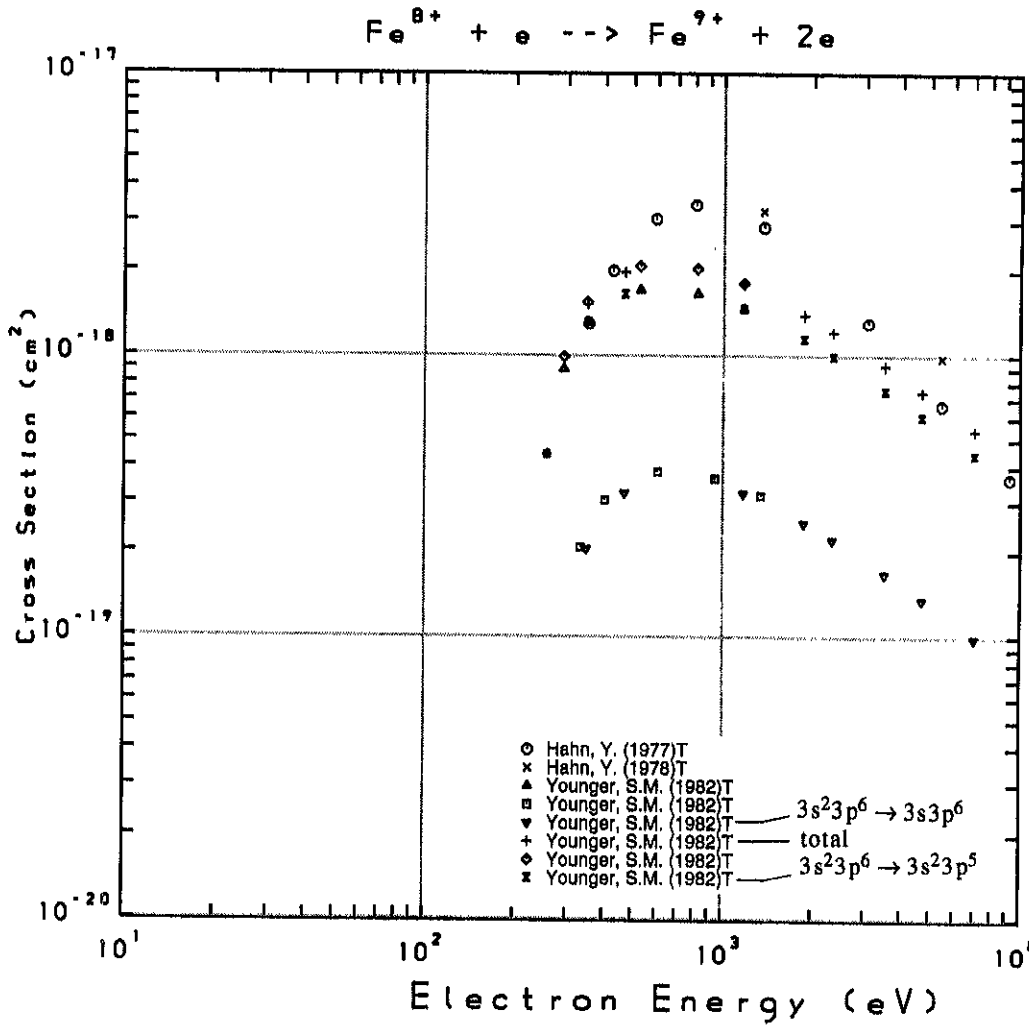

Fig. 204 $Fe^{8+} \rightarrow Fe^{9+}$

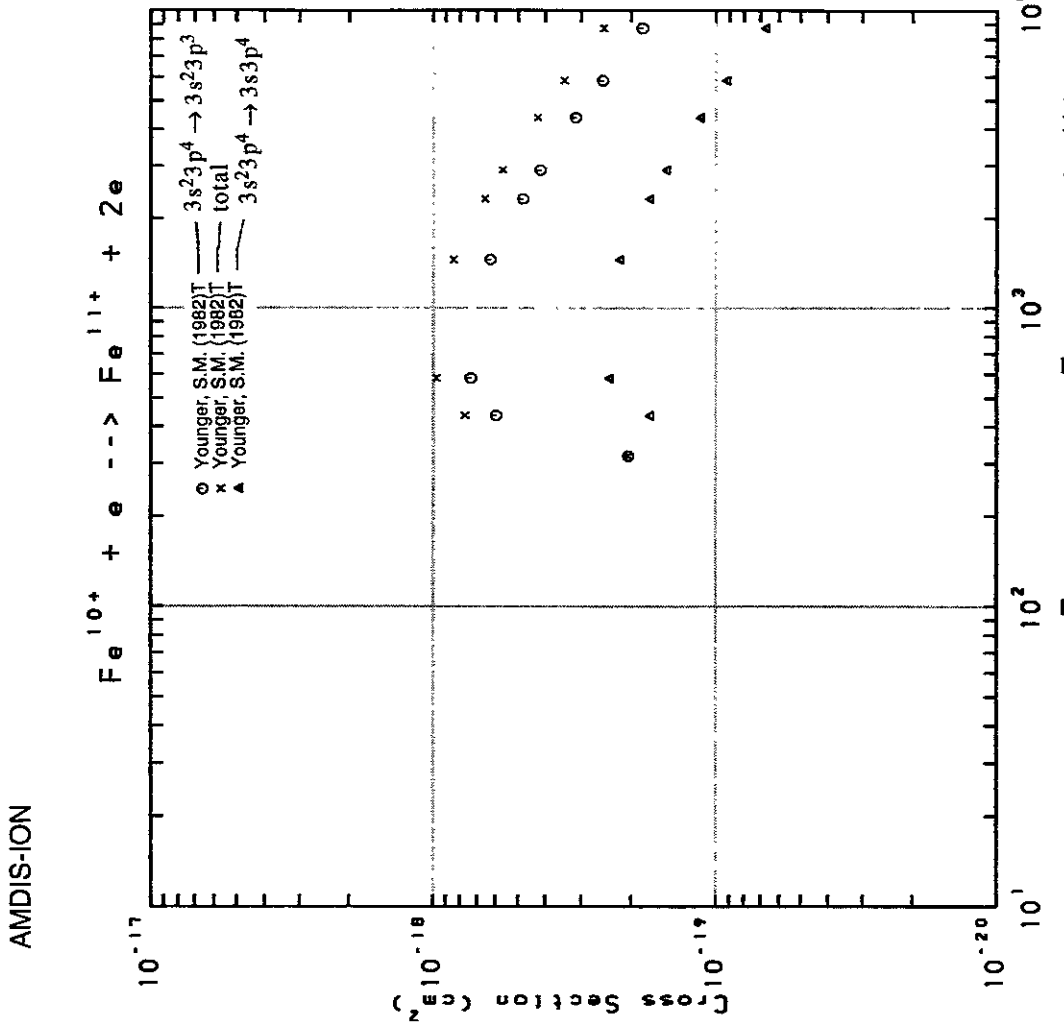

Fig. 206 $Fe^{10+} \rightarrow Fe^{11+}$

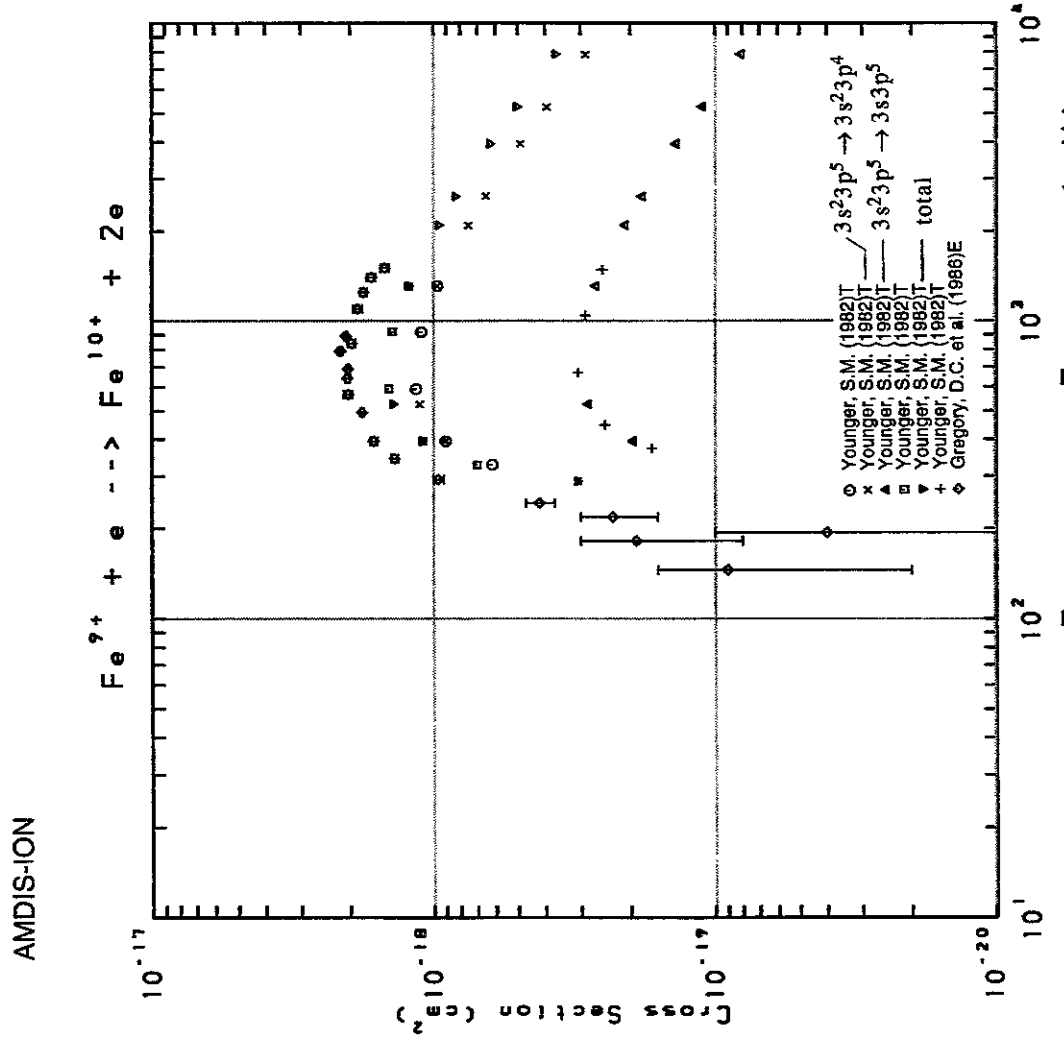

Fig. 205 $Fe^{9+} \rightarrow Fe^{10+}$

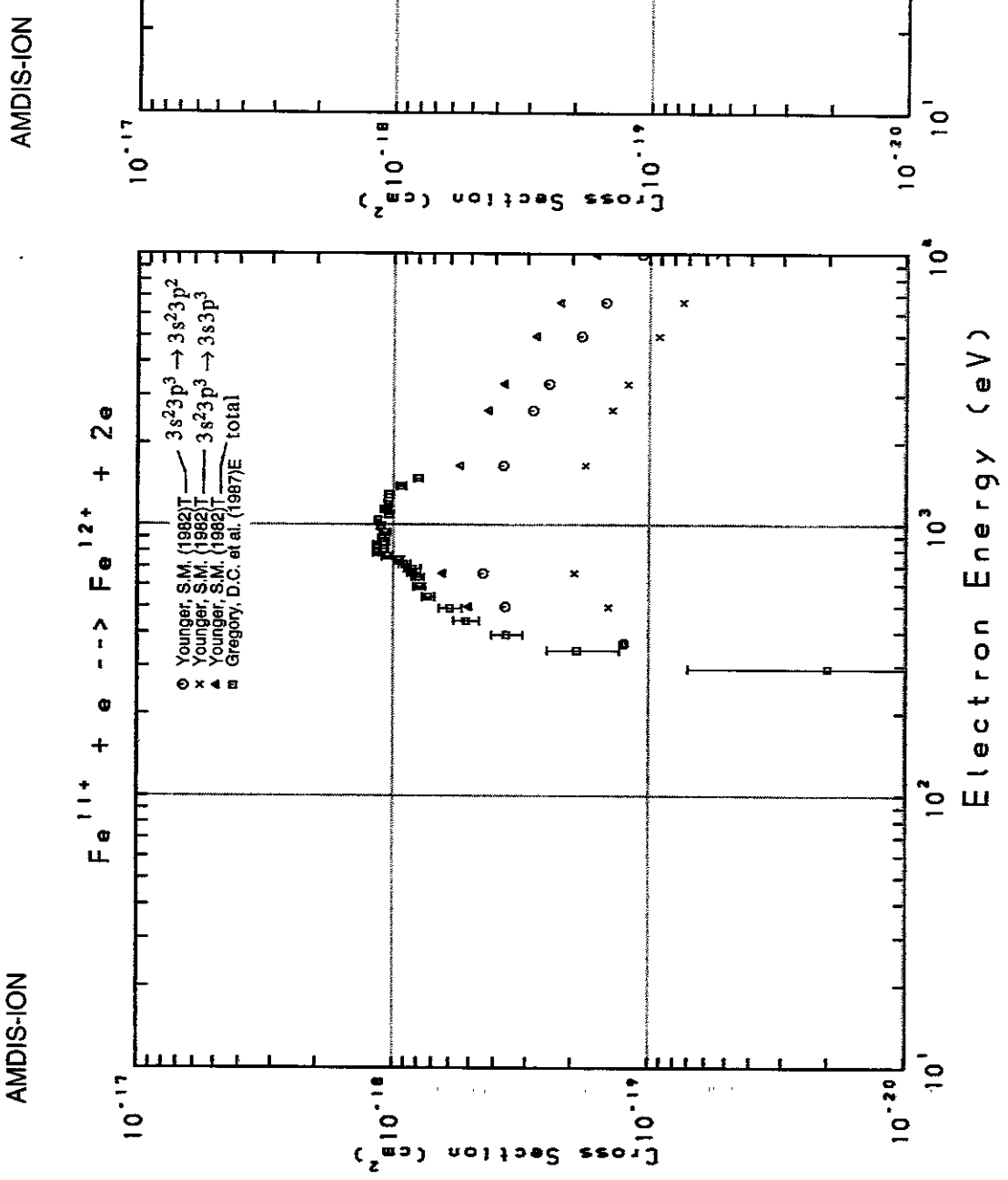

Fig. 207 $Fe^{11+} \rightarrow Fe^{12+}$

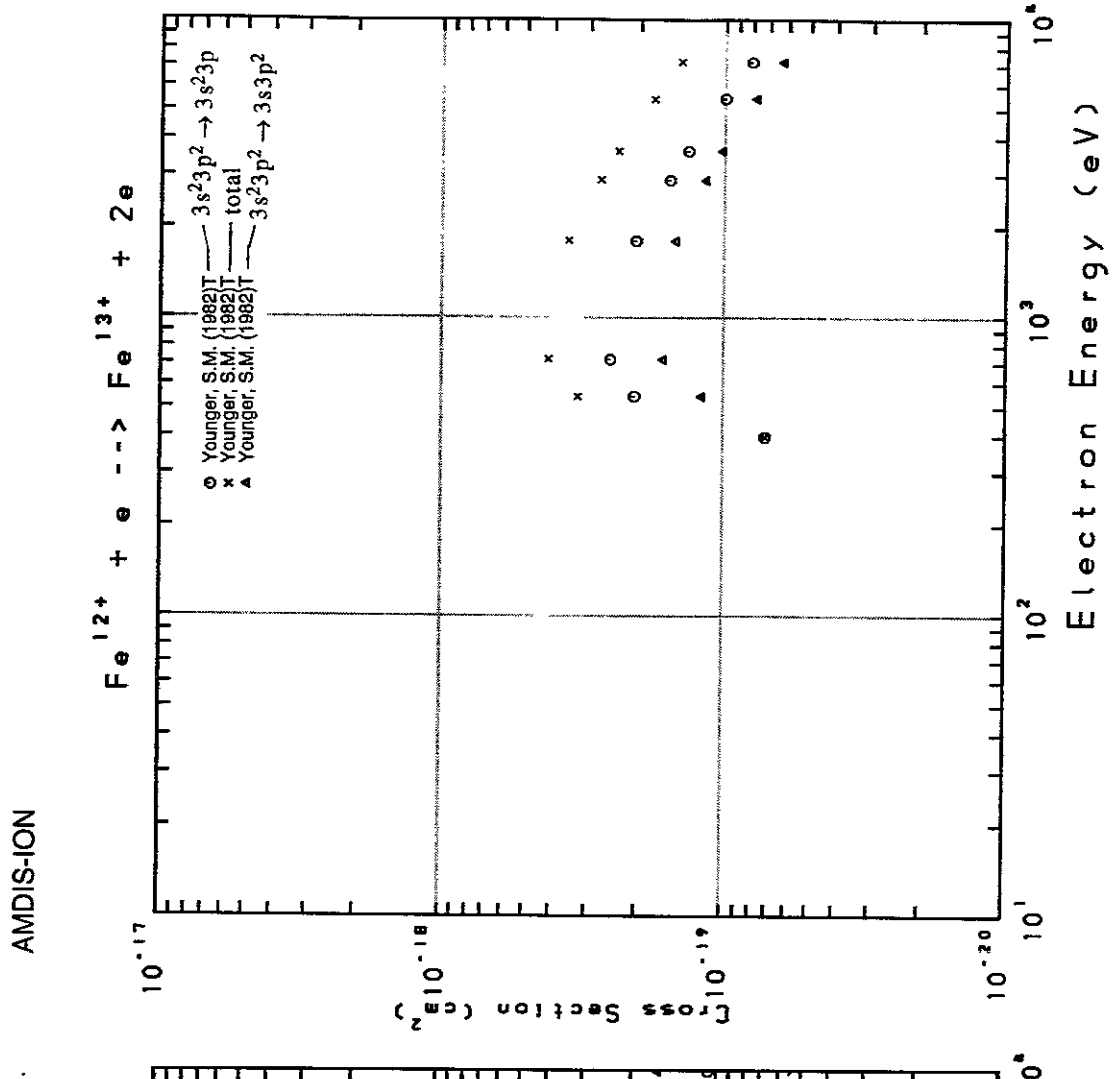

Fig. 208 $Fe^{12+} \rightarrow Fe^{13+}$

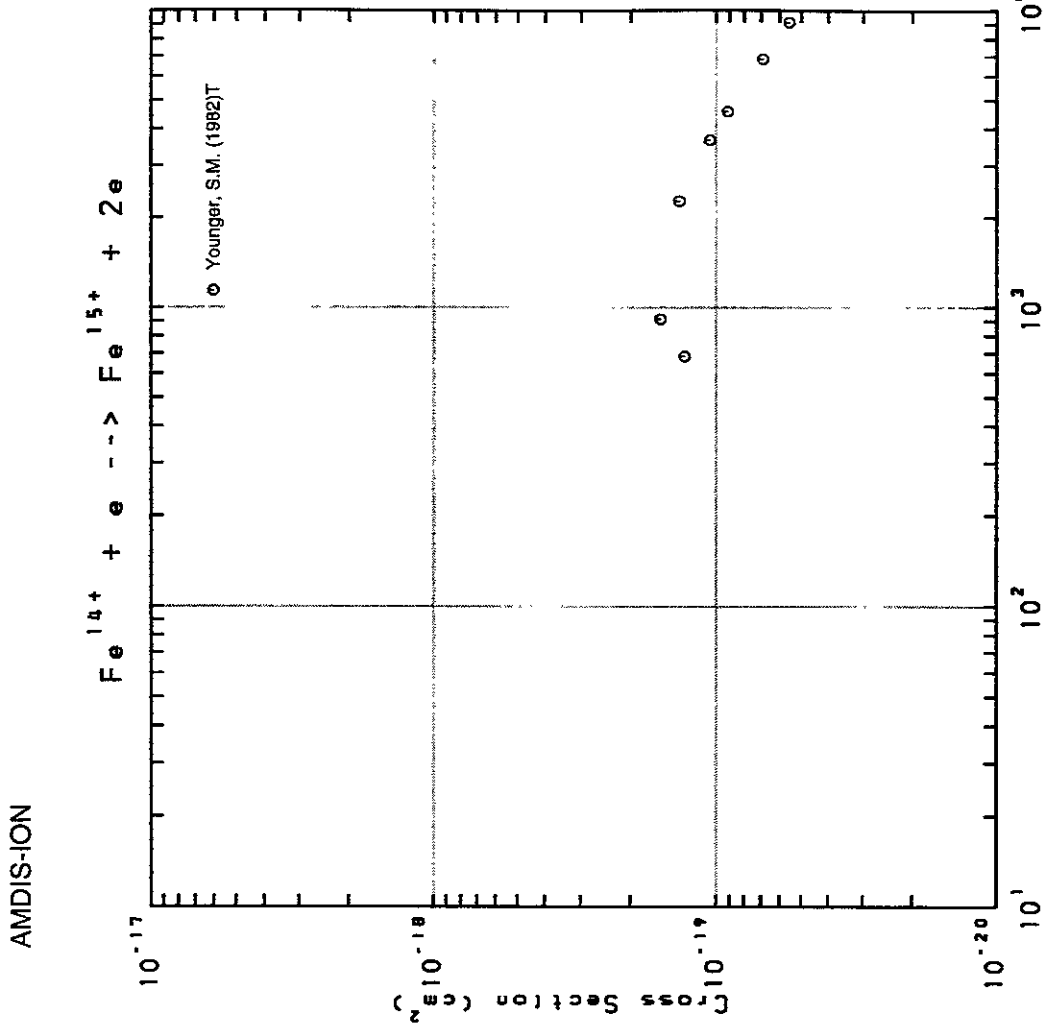

Fig. 210 $Fe^{14+} \rightarrow Fe^{15+}$

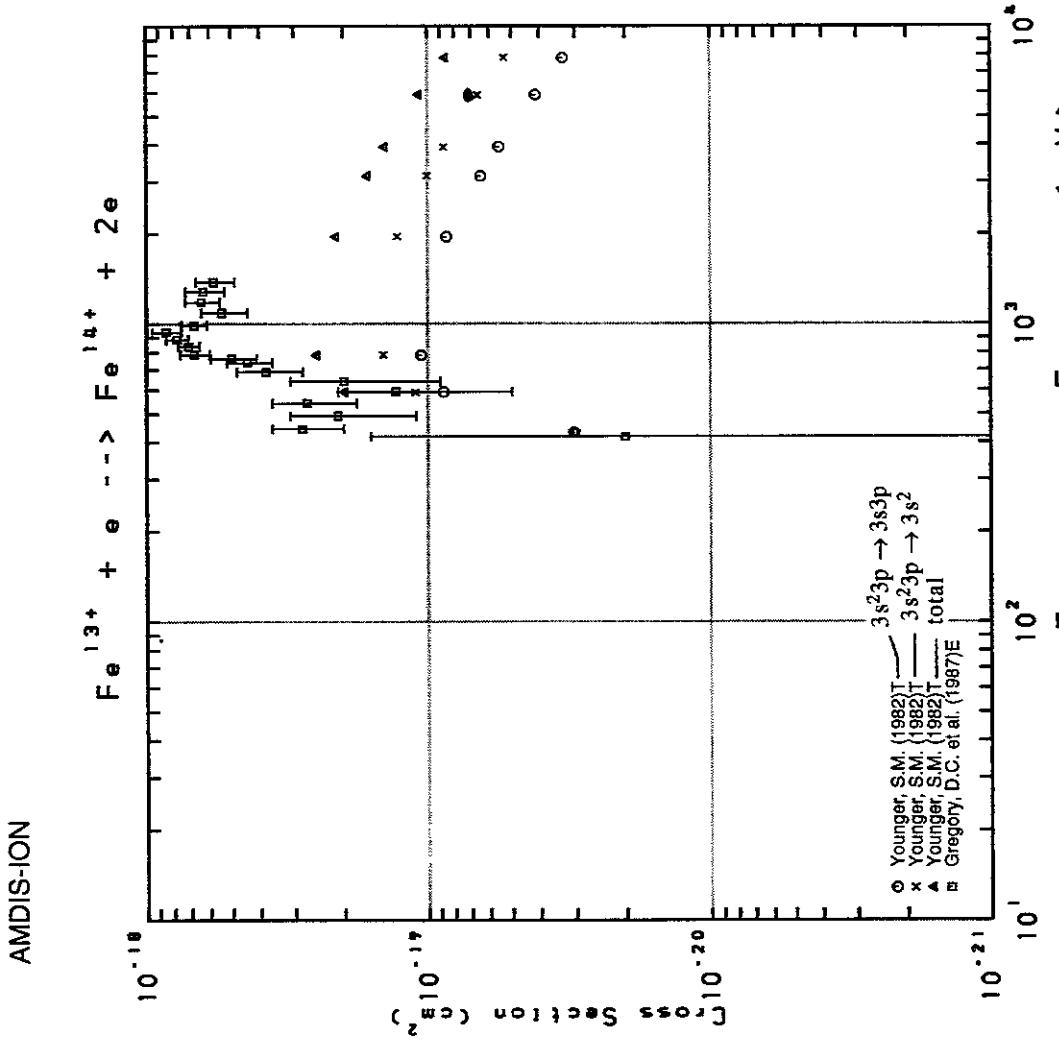

Fig. 209 $Fe^{13+} \rightarrow Fe^{14+}$

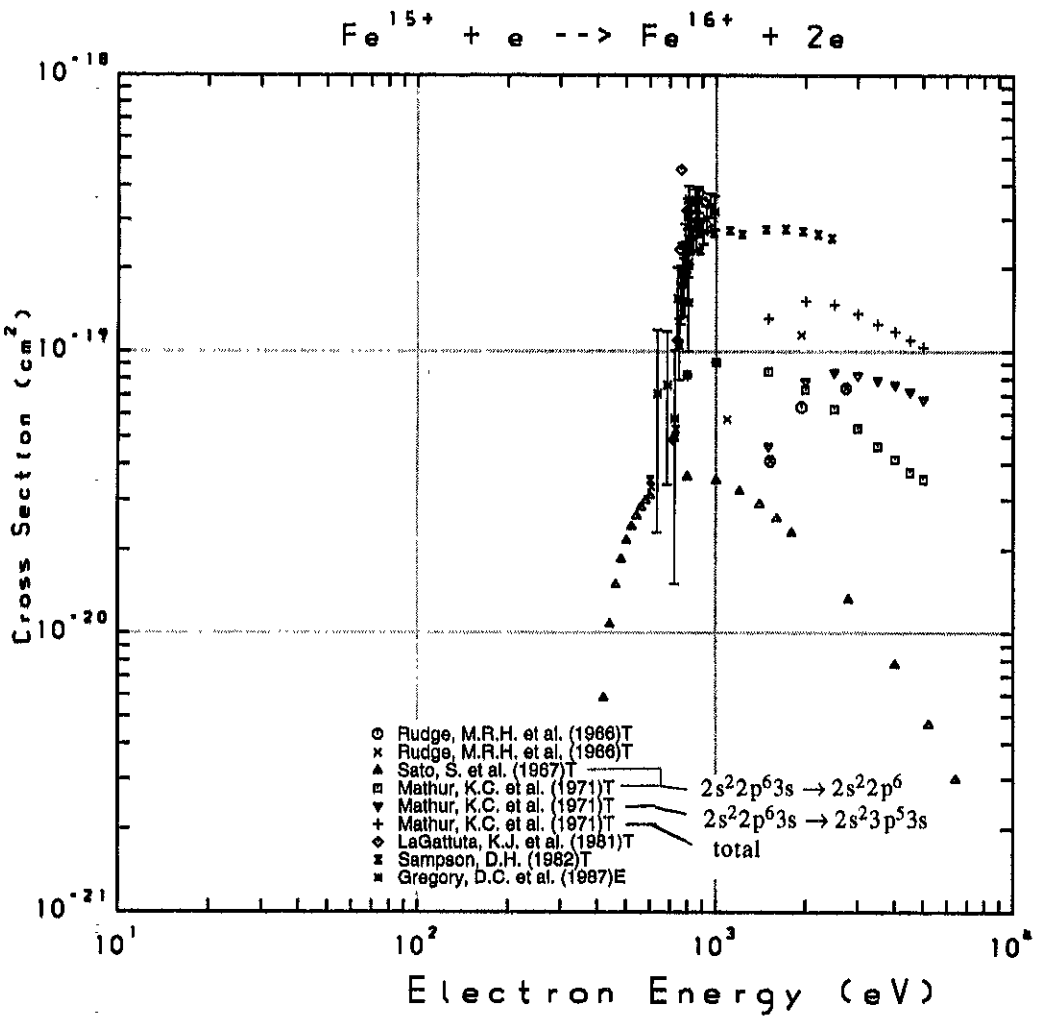

Fig. 211 $Fe^{15+} \rightarrow Fe^{16+}$

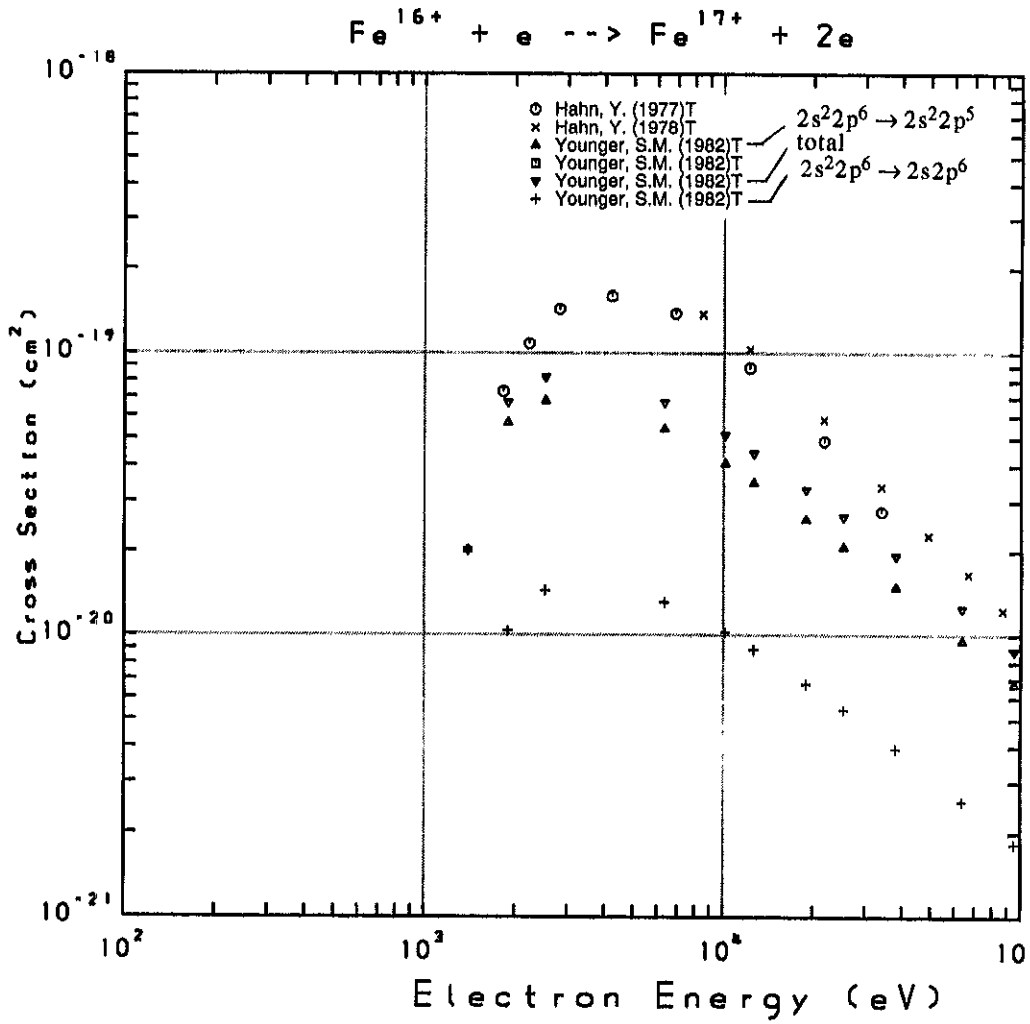

Fig. 212 $Fe^{16+} \rightarrow Fe^{17+}$

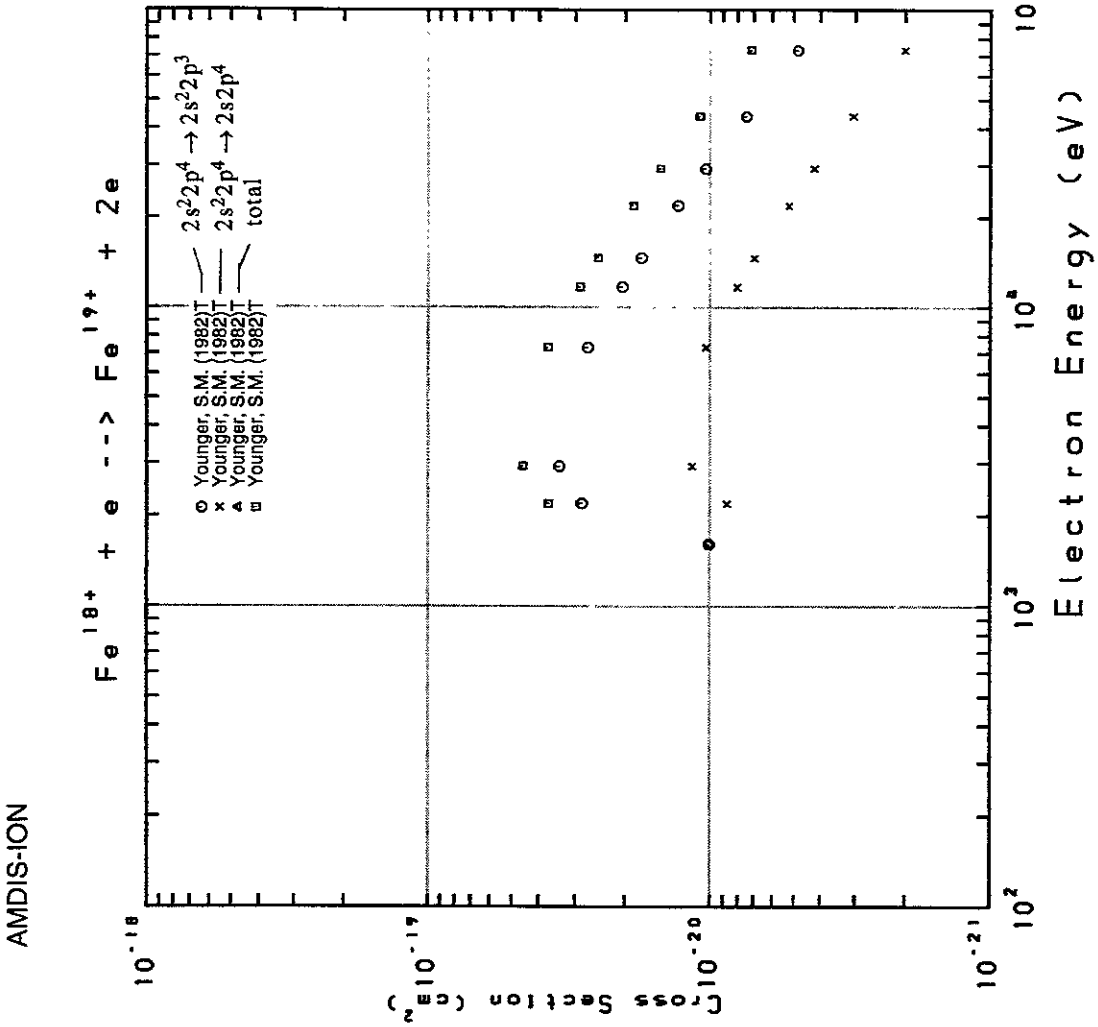

Fig. 214 $Fe^{18+} \rightarrow Fe^{19+}$

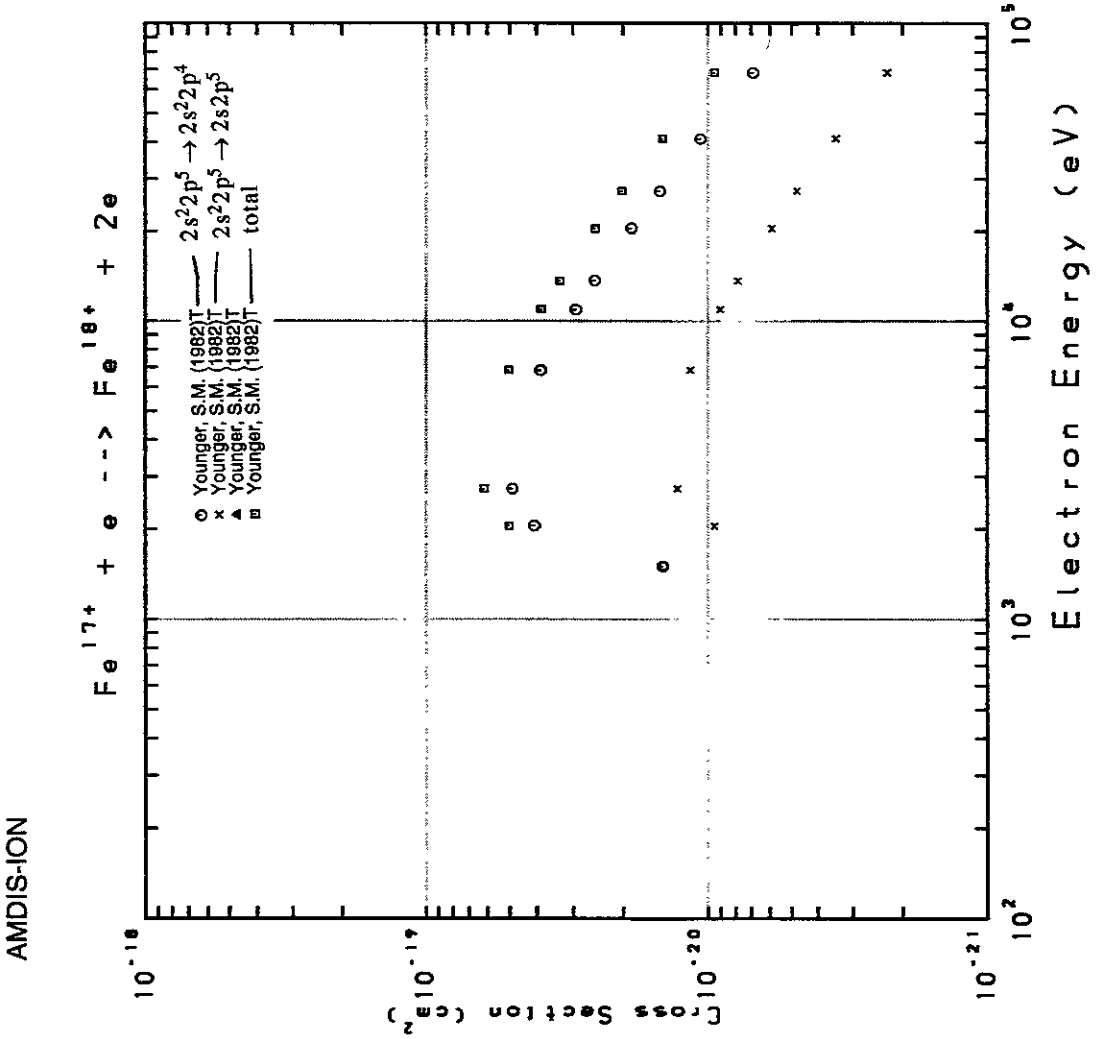

Fig. 213 $Fe^{17+} \rightarrow Fe^{18+}$

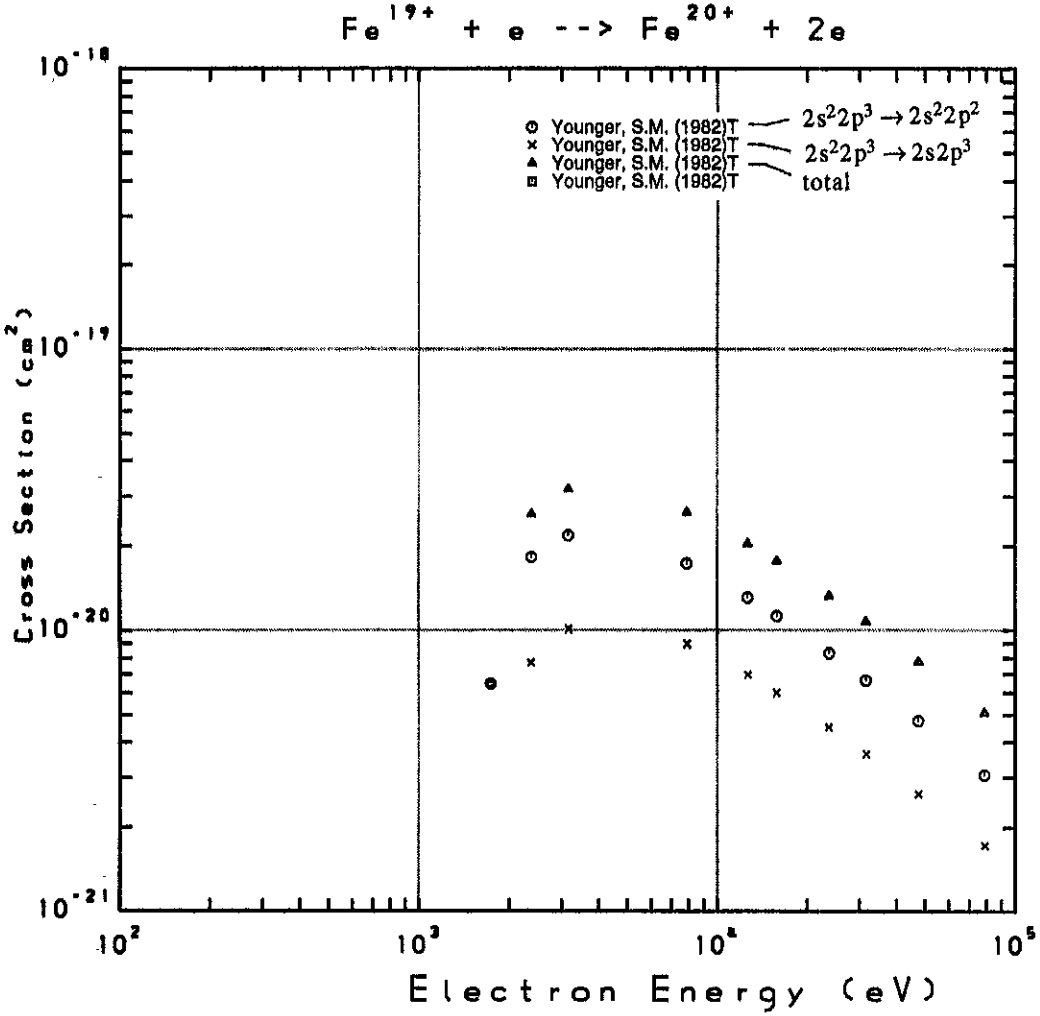

Fig. 215 $Fe^{19+} \rightarrow Fe^{20+}$

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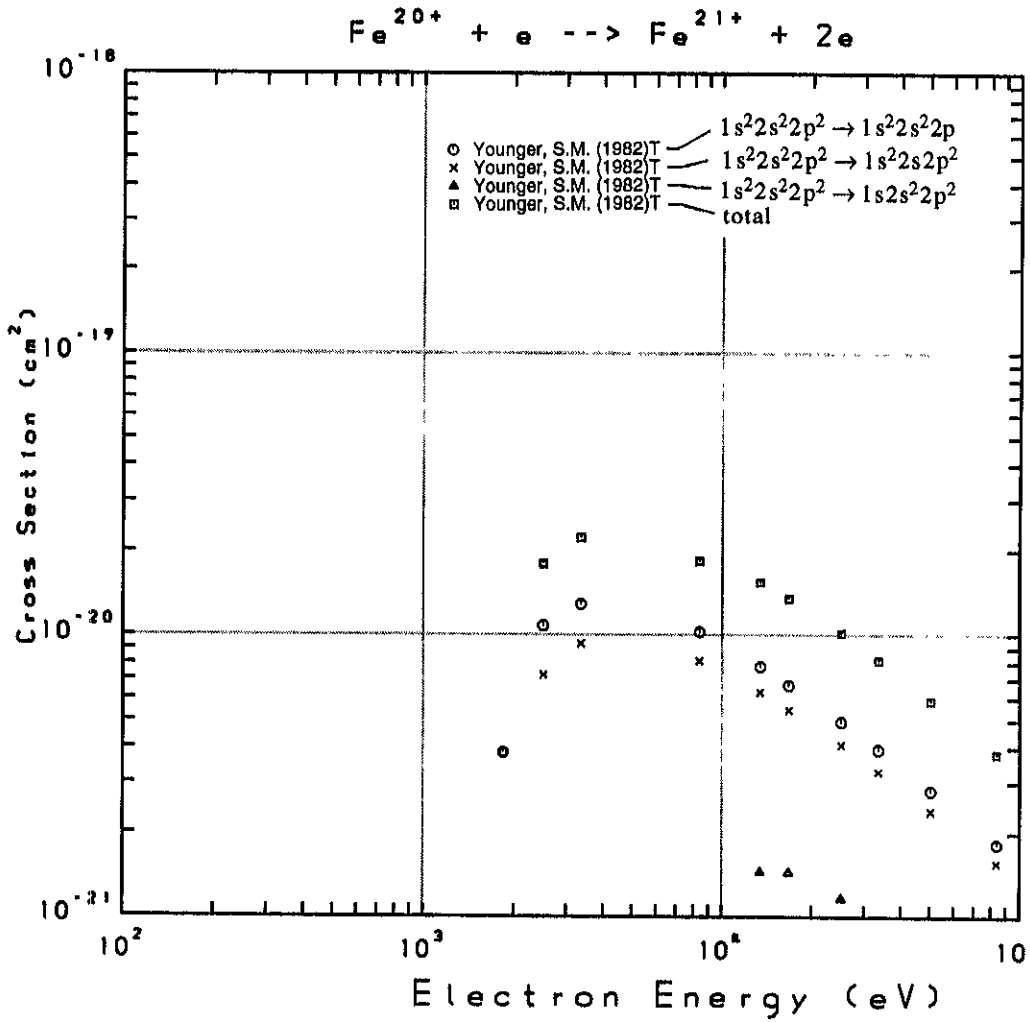

Fig. 216 $Fe^{20+} \rightarrow Fe^{21+}$

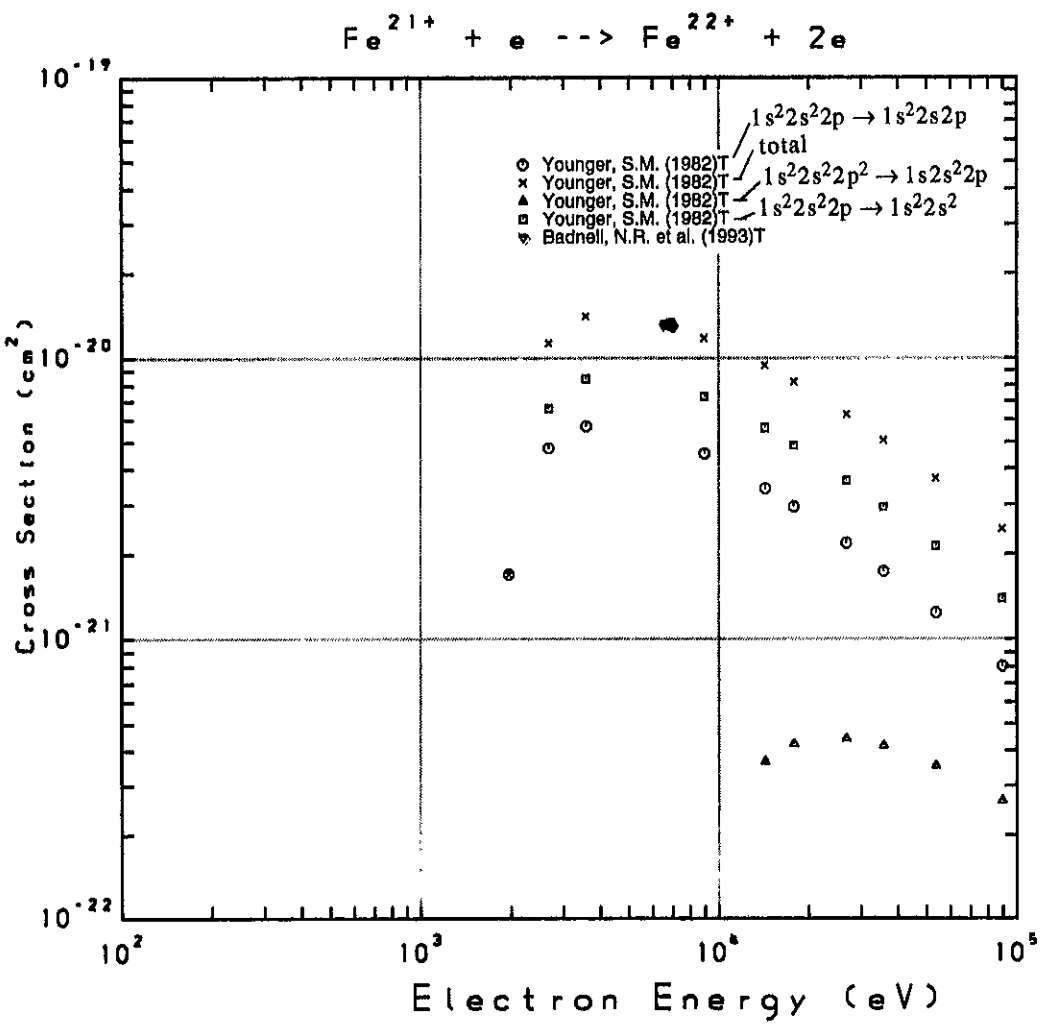

Fig. 217 $Fe^{21+} \rightarrow Fe^{22+}$

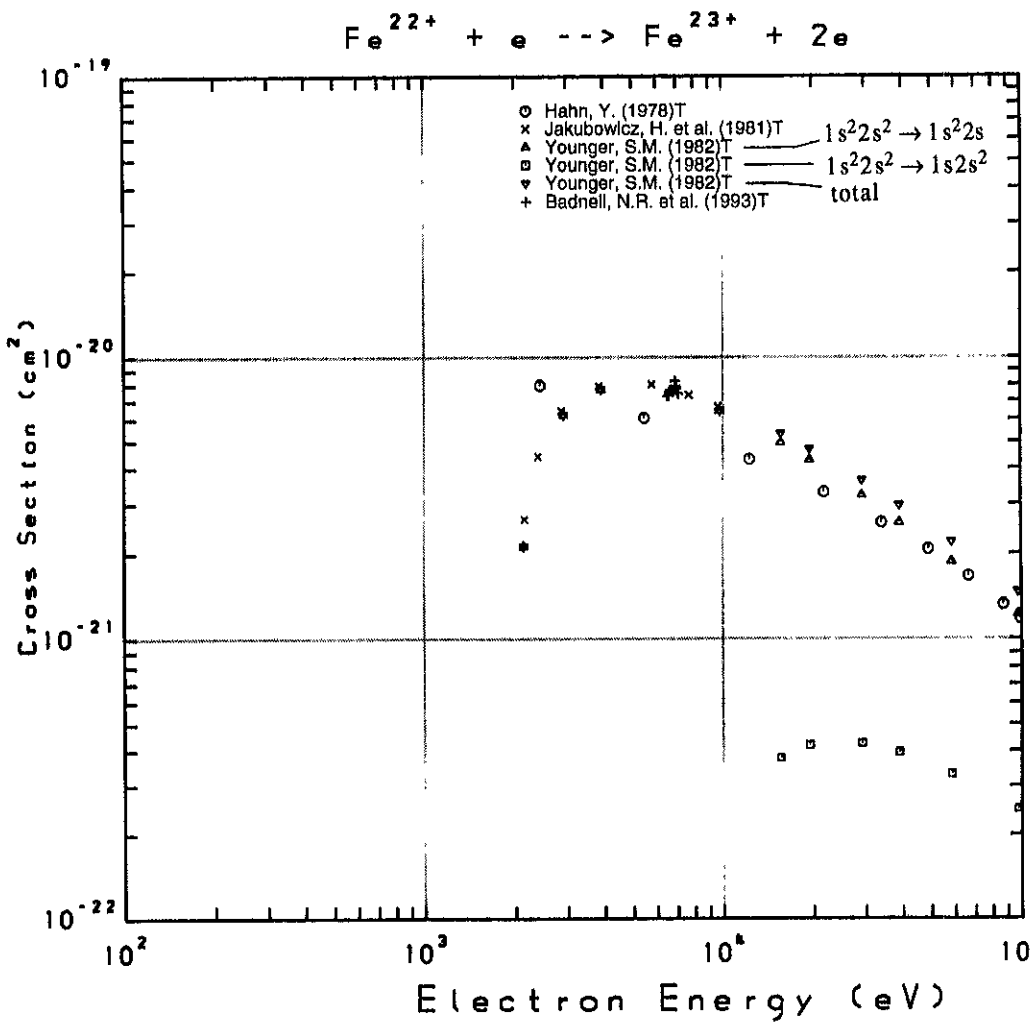

Fig. 218 $Fe^{22+} \rightarrow Fe^{23+}$

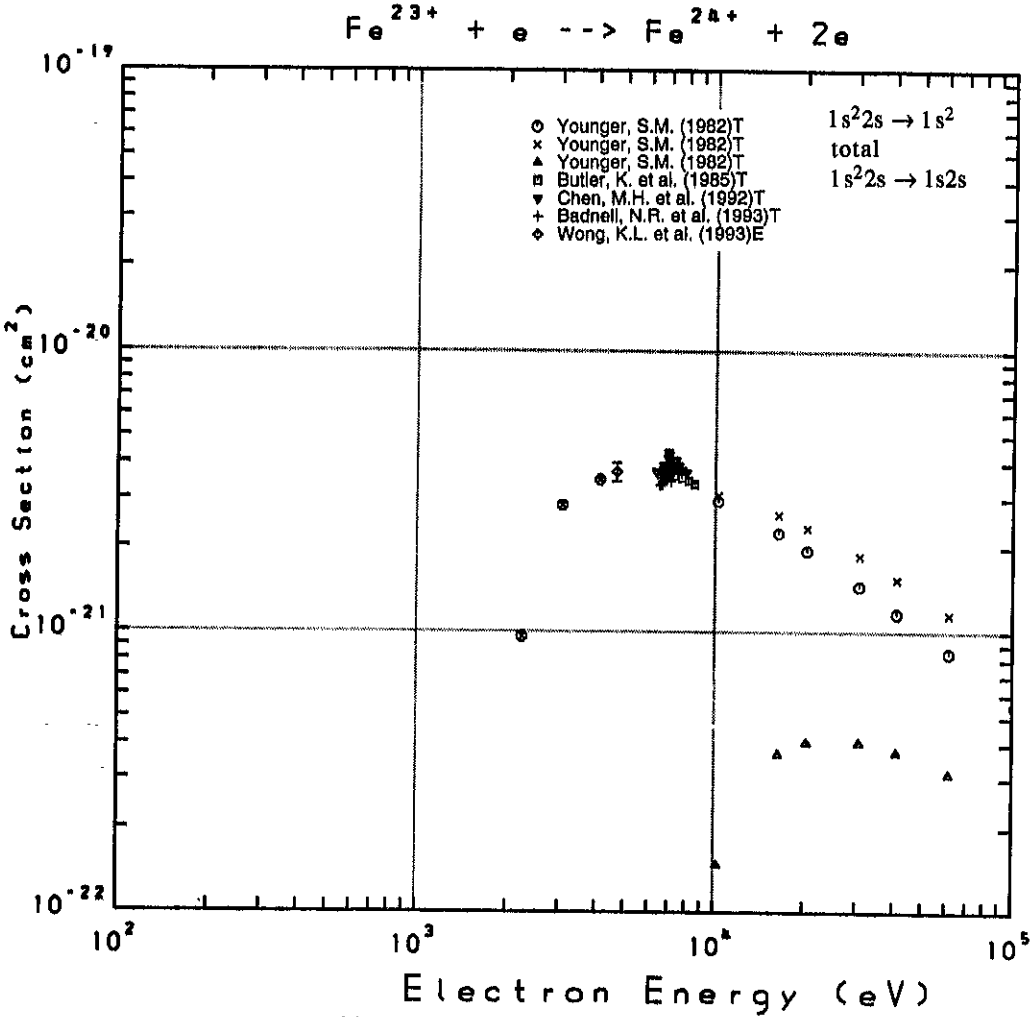

Fig. 219 $Fe^{23+} \rightarrow Fe^{24+}$

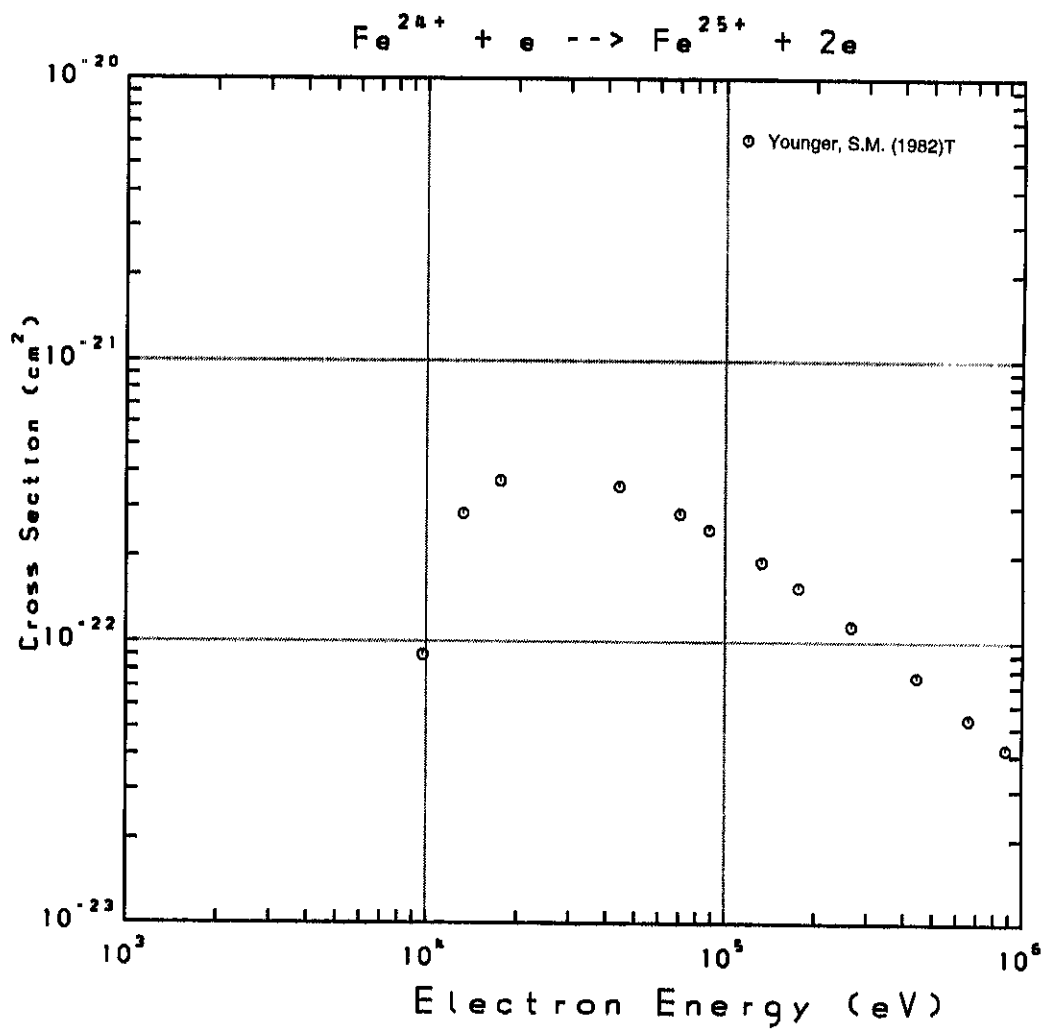

Fig. 220 $Fe^{24+} \rightarrow Fe^{25+}$

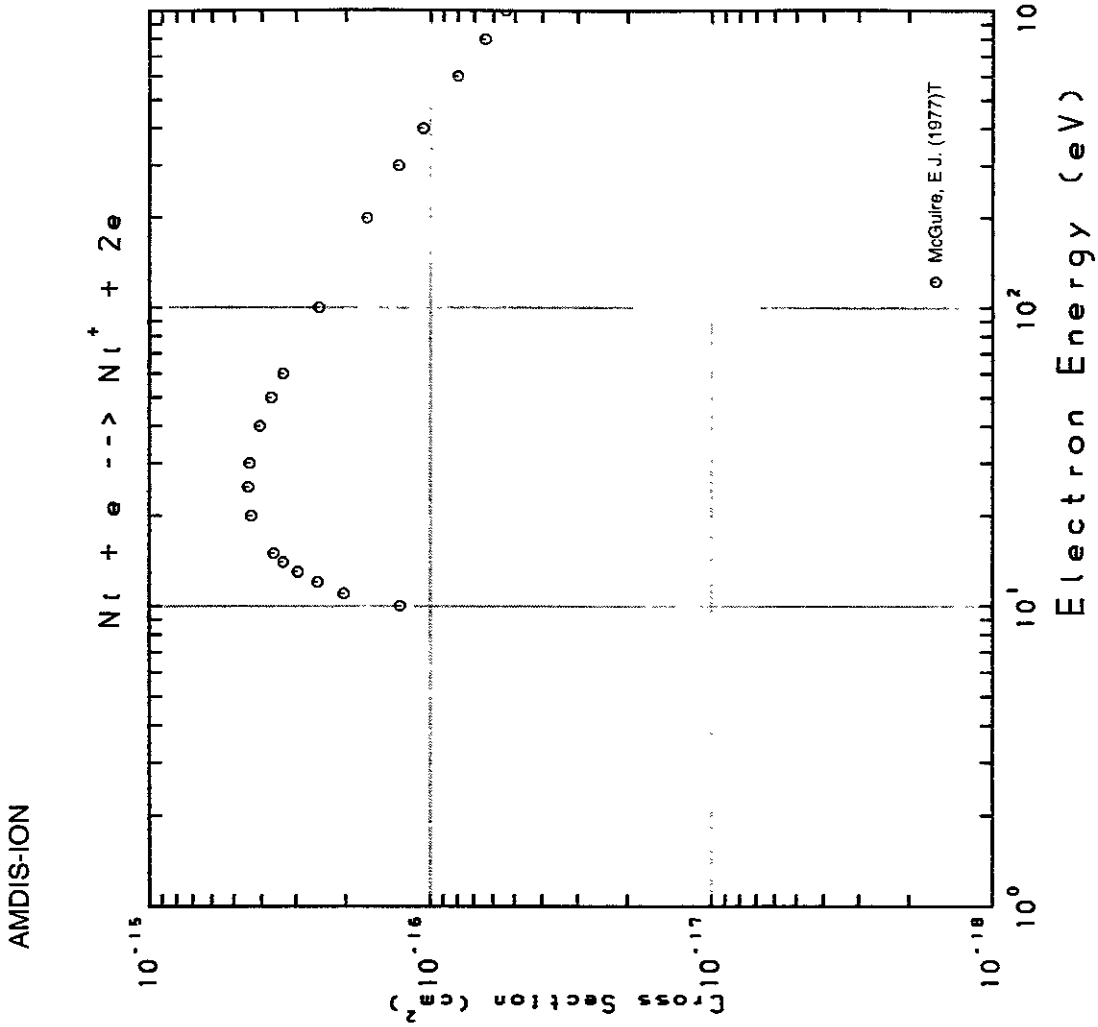

Fig. 222 Ni → Ni^{+}

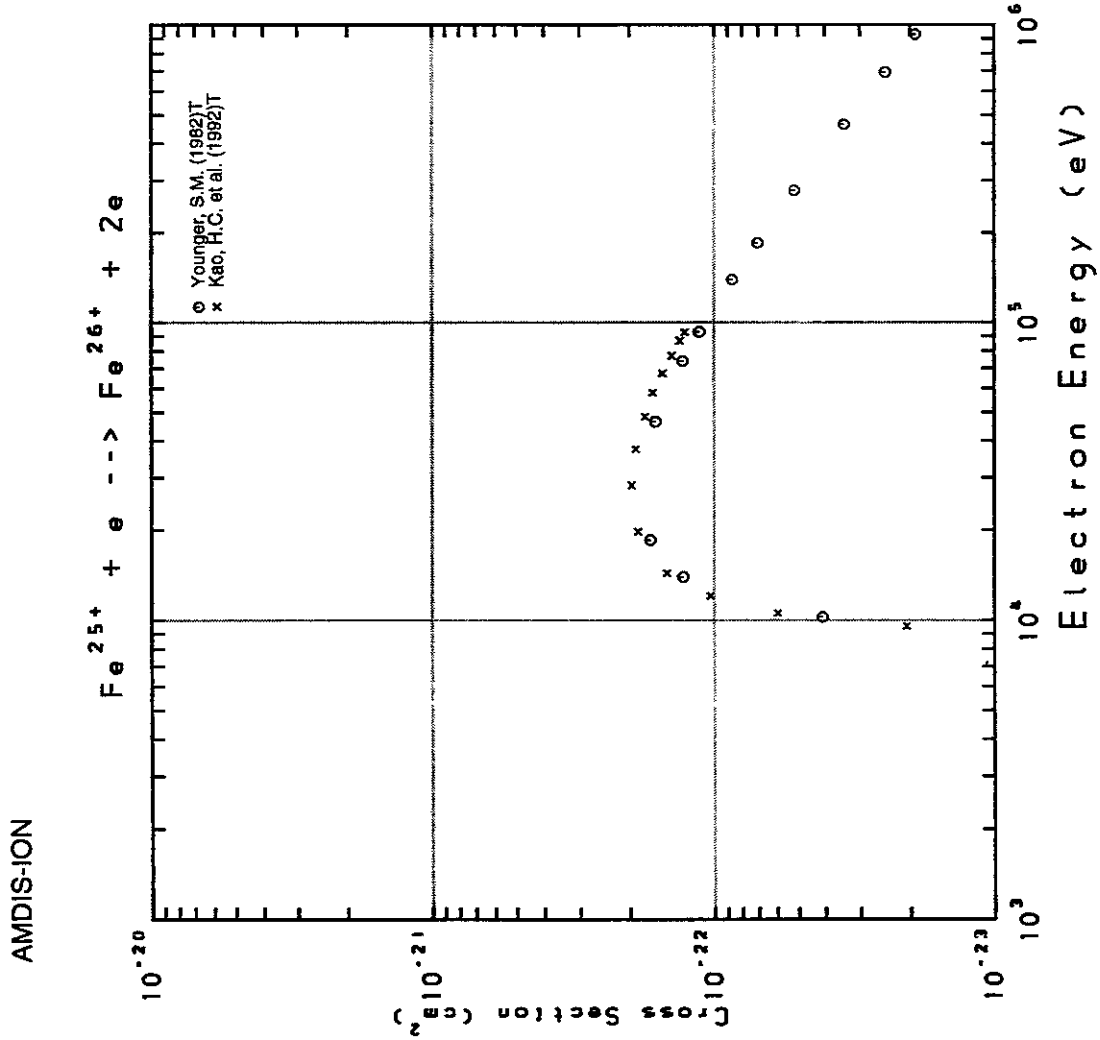

Fig. 221 Fe^{25+} → Fe^{26+}

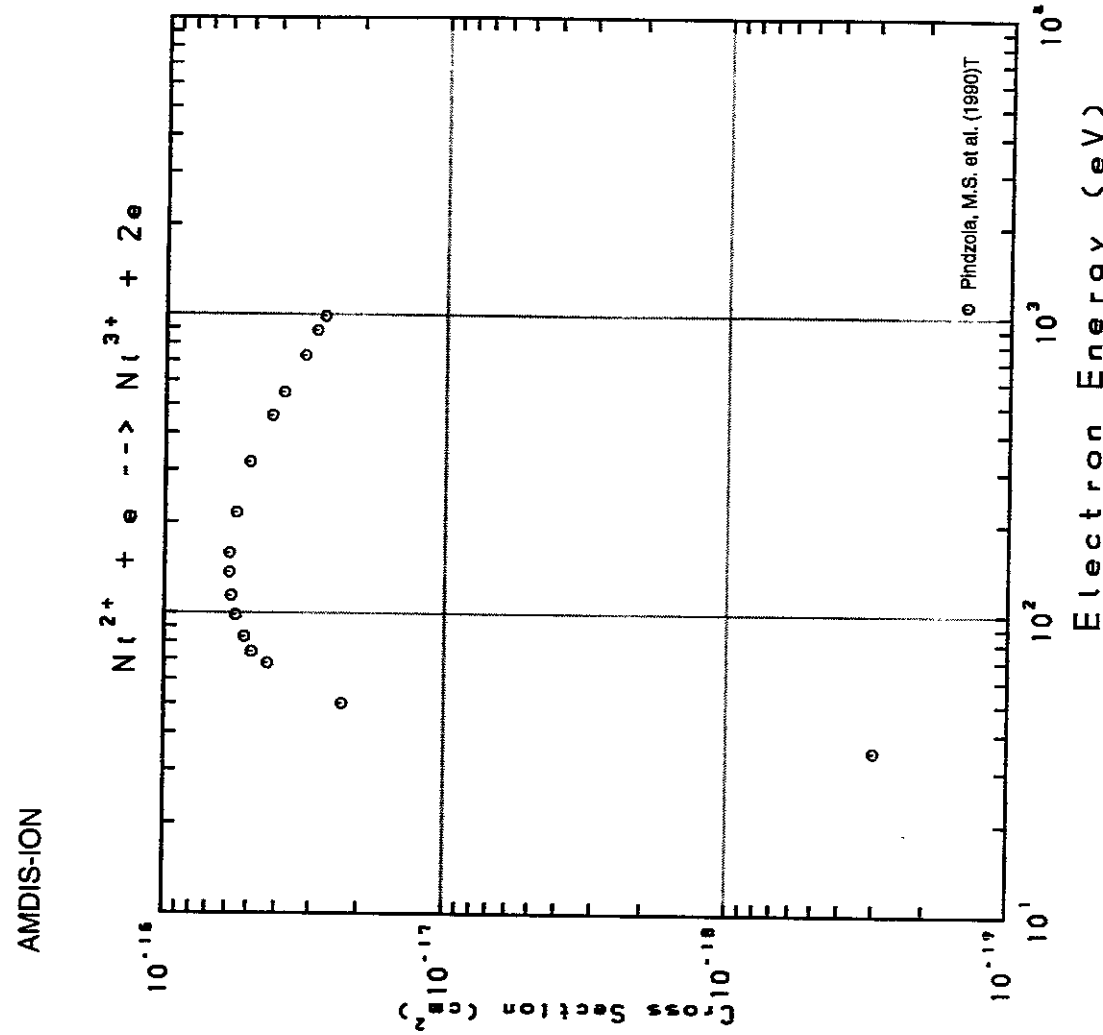

Fig. 223 $Ni^{+} \rightarrow Ni^{2+}$

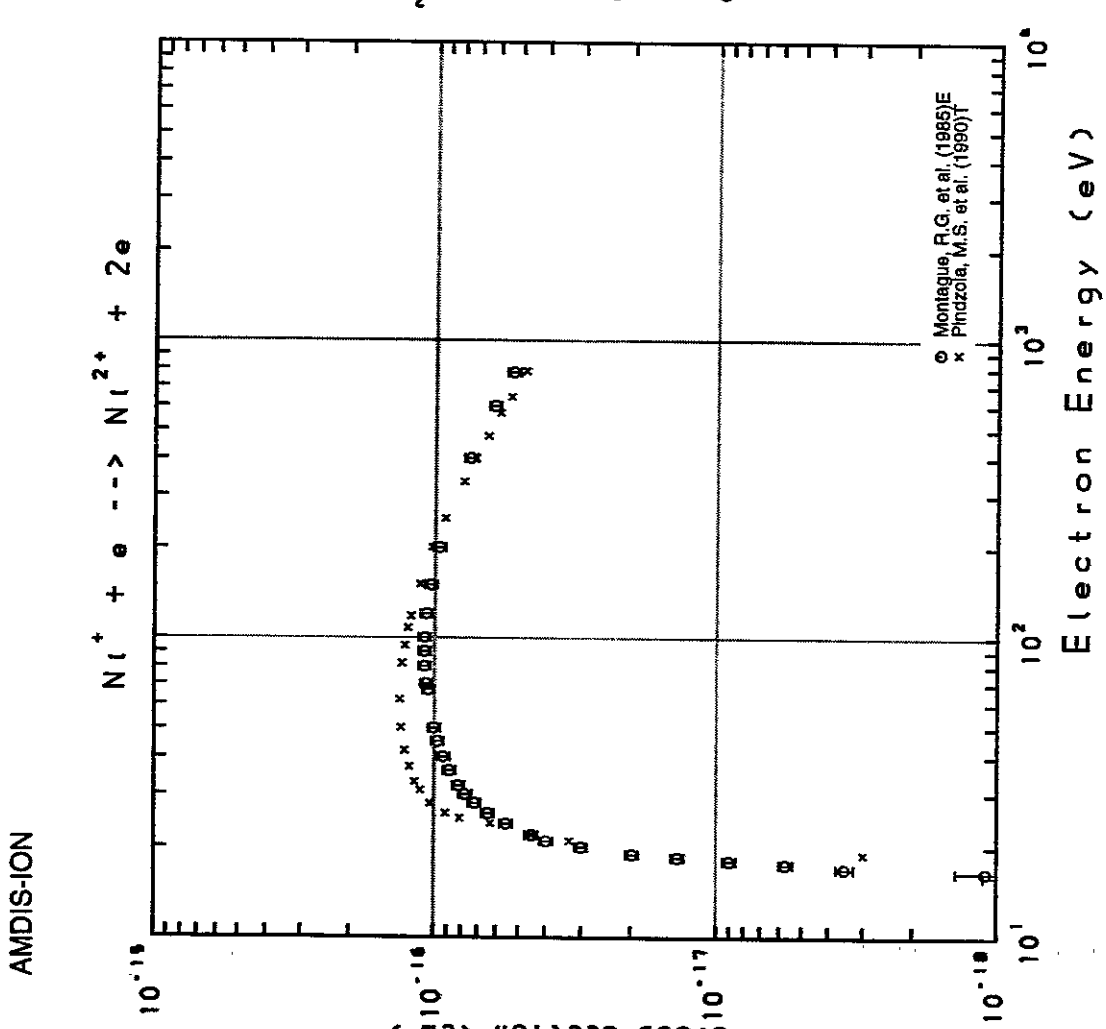

Fig. 224 $Ni^{2+} \rightarrow Ni^{3+}$

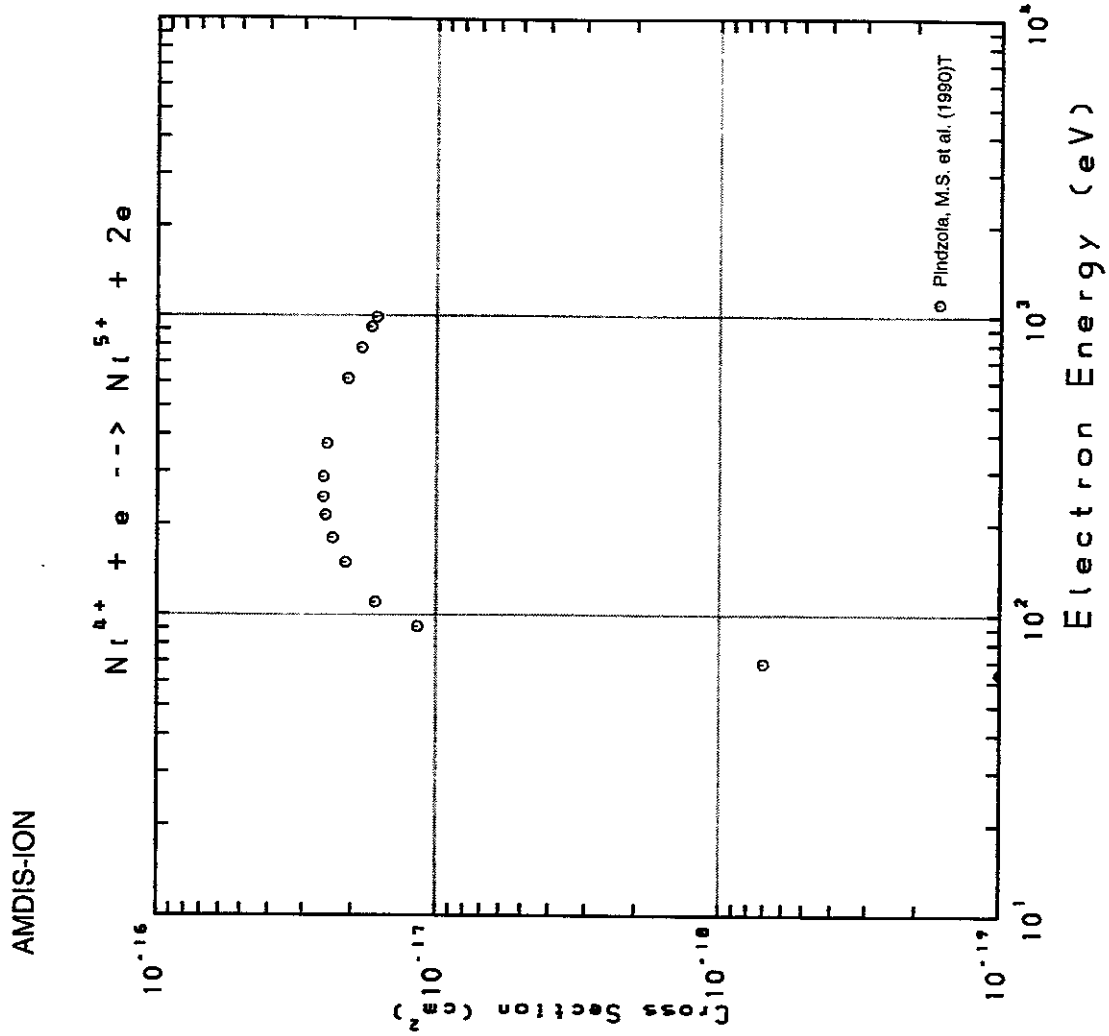

Fig. 226 $Ni^{4+} \rightarrow Ni^{5+}$

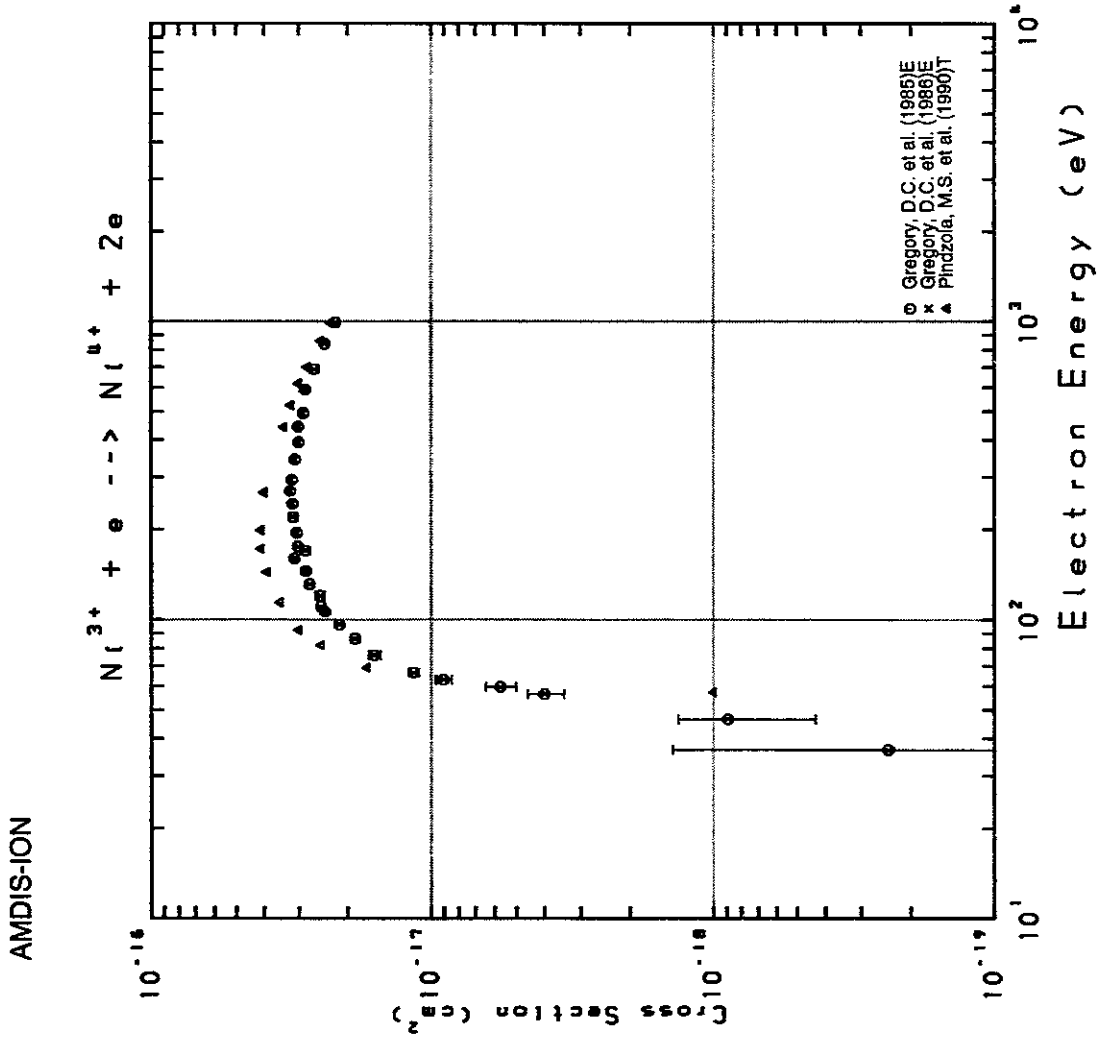

Fig. 225 $Ni^{3+} \rightarrow Ni^{4+}$

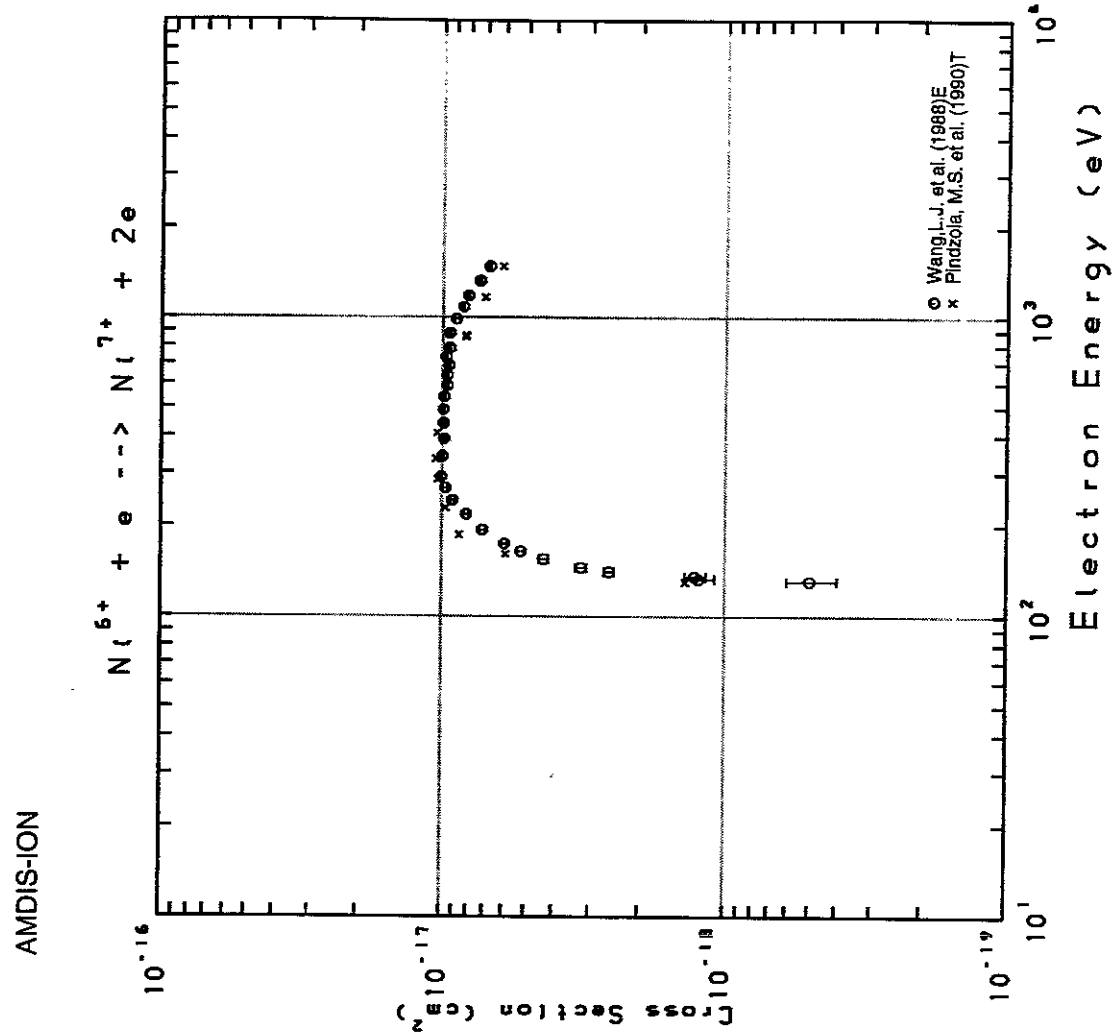

Fig. 227 $Ni^{5+} \rightarrow Ni^{6+}$

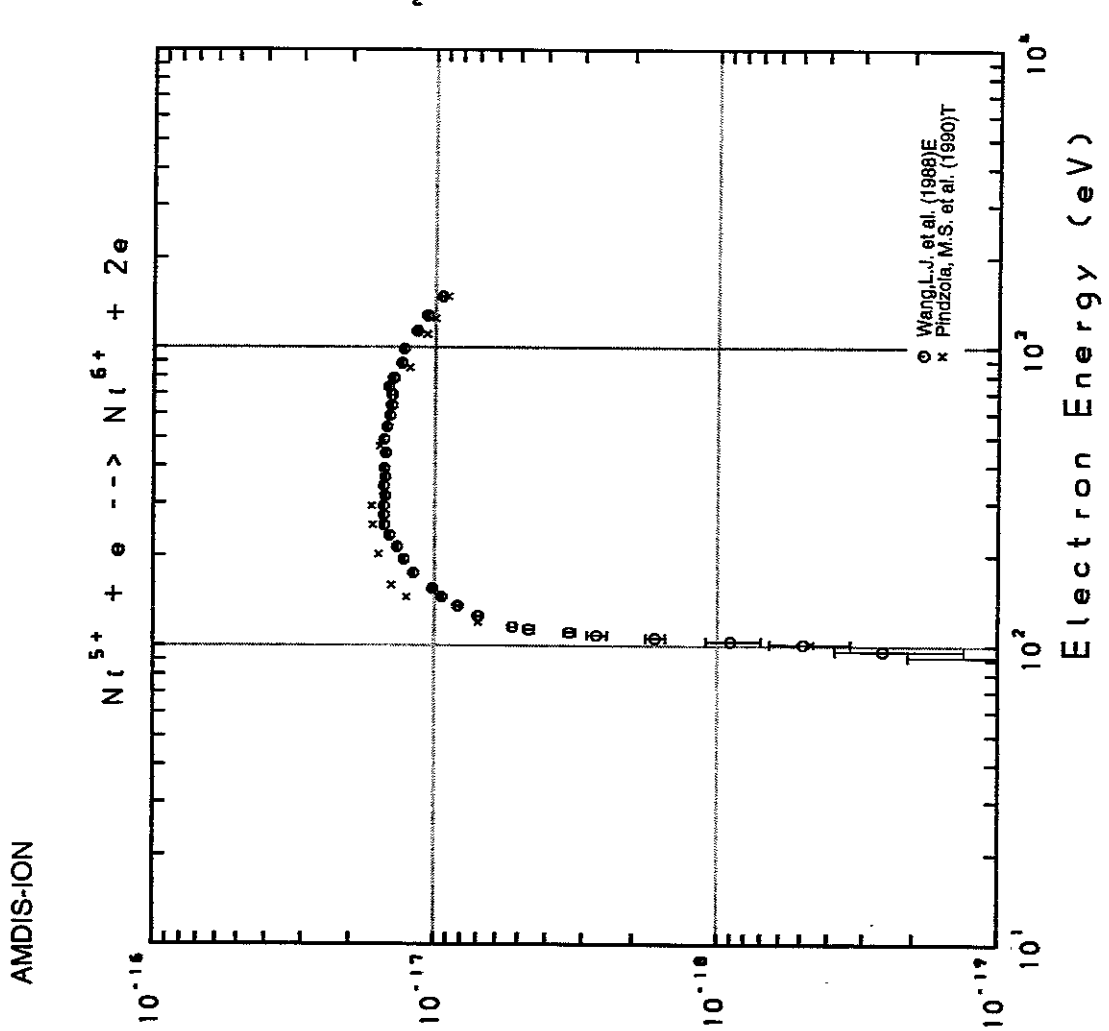

Fig. 228 $Ni^{6+} \rightarrow Ni^{7+}$

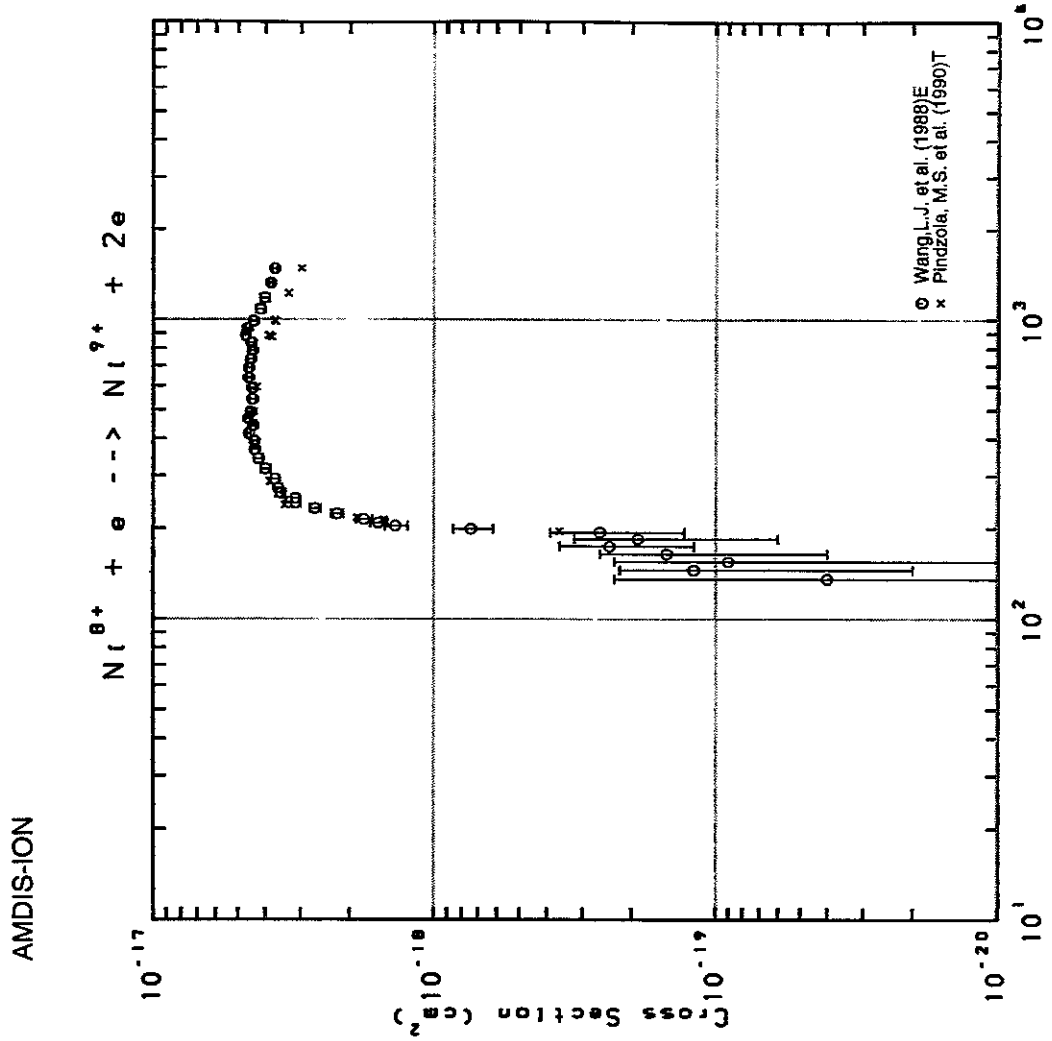

Fig. 230 $Ni^{8+} \rightarrow Ni^{9+}$

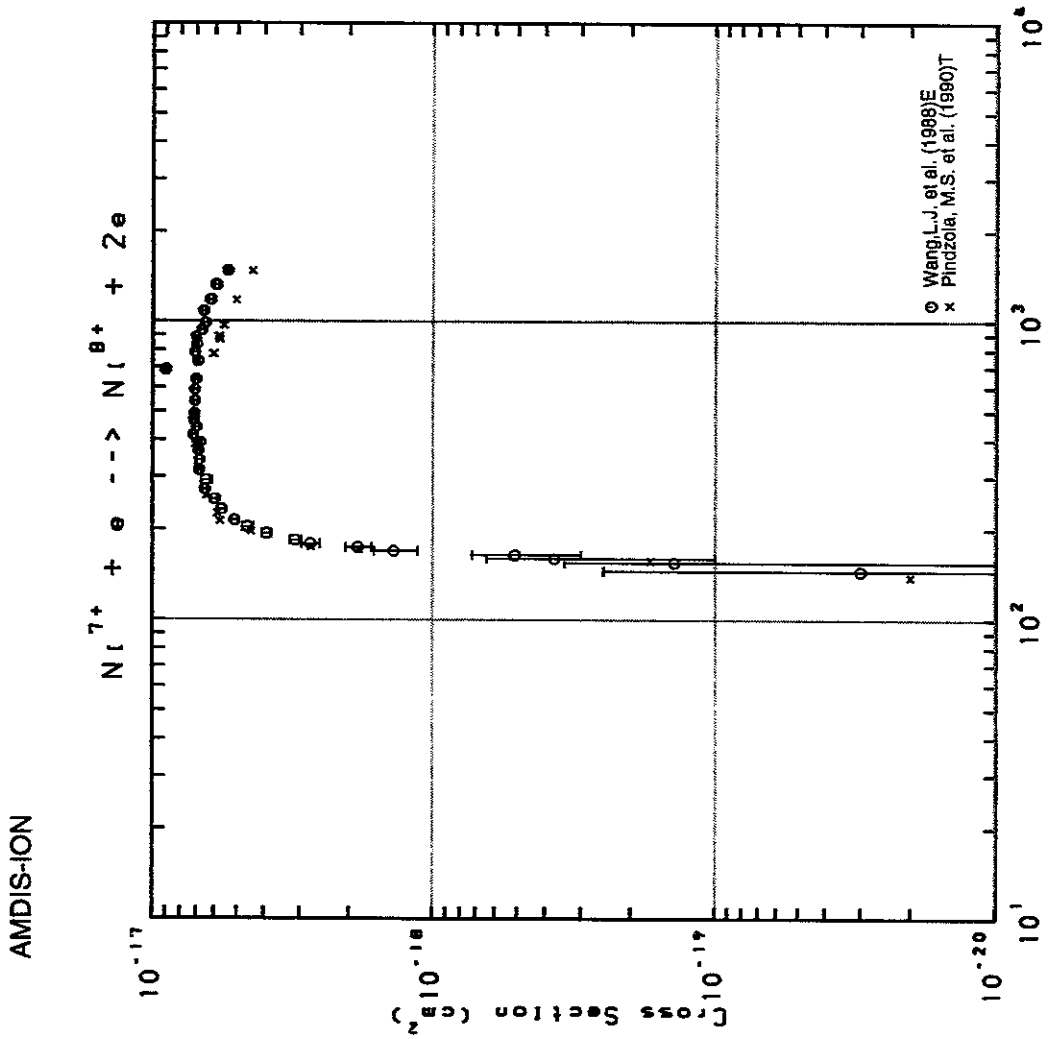

Fig. 229 $Ni^{7+} \rightarrow Ni^{8+}$

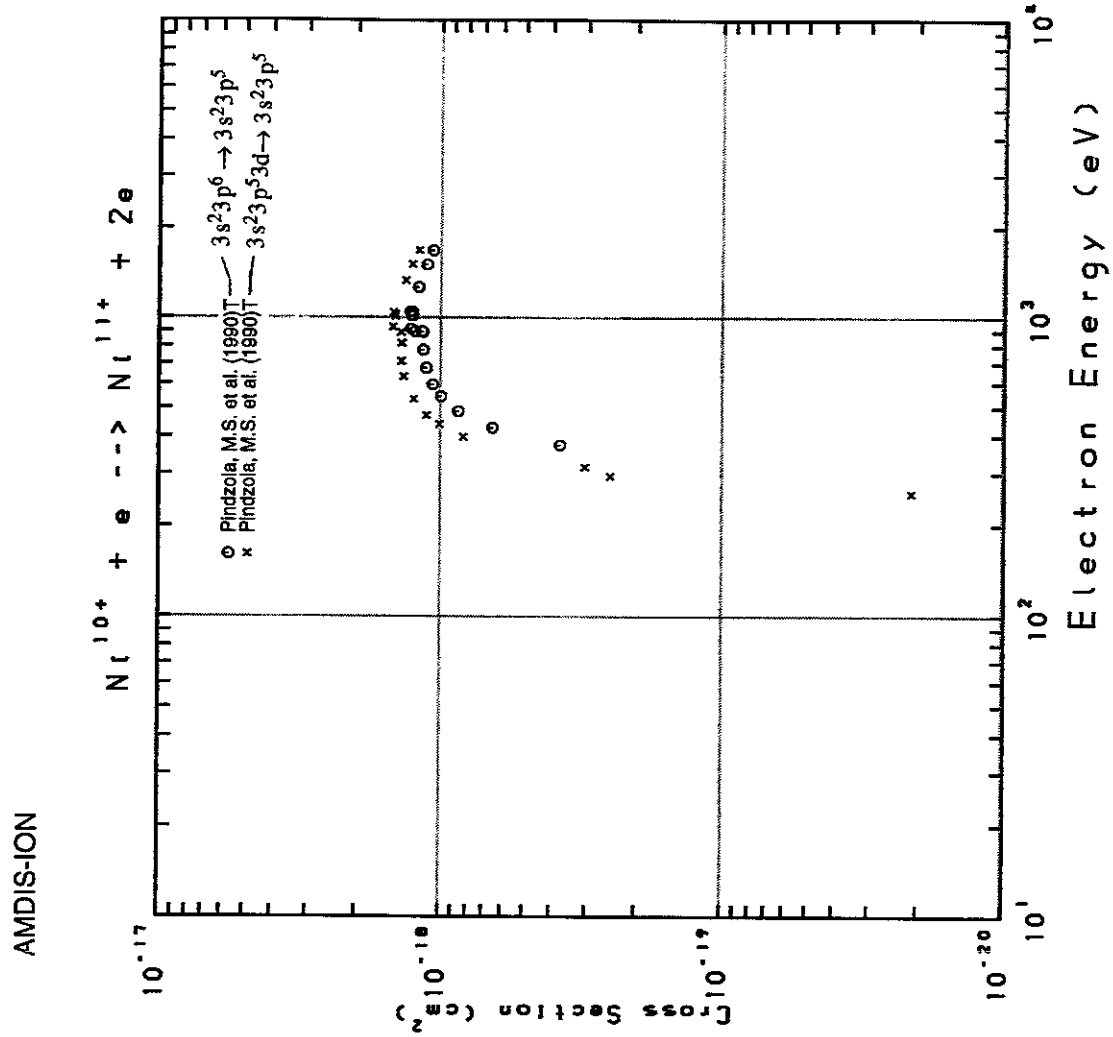

Fig. 232 $Ni^{10+} \rightarrow Ni^{11+}$

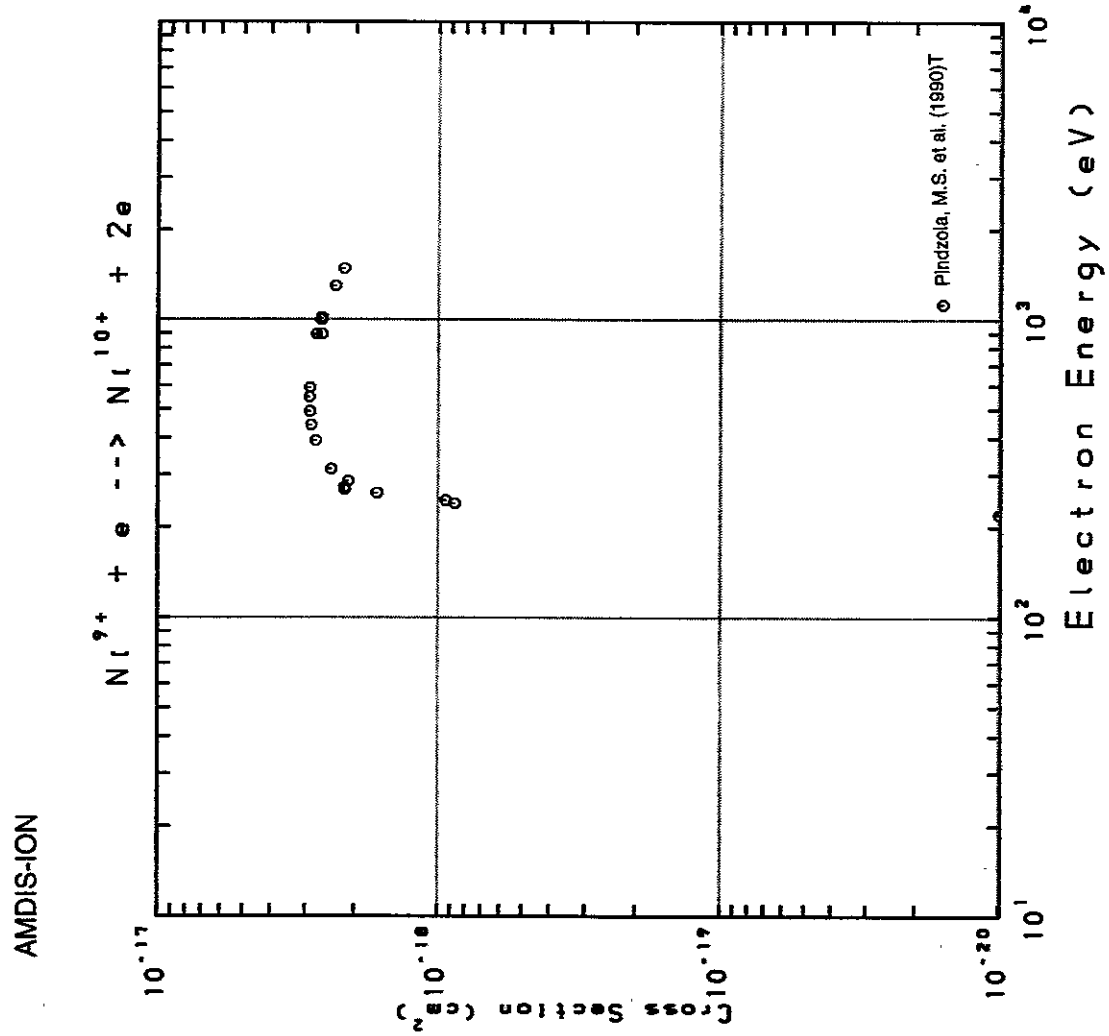

Fig. 231 $Ni^{9+} \rightarrow Ni^{10+}$

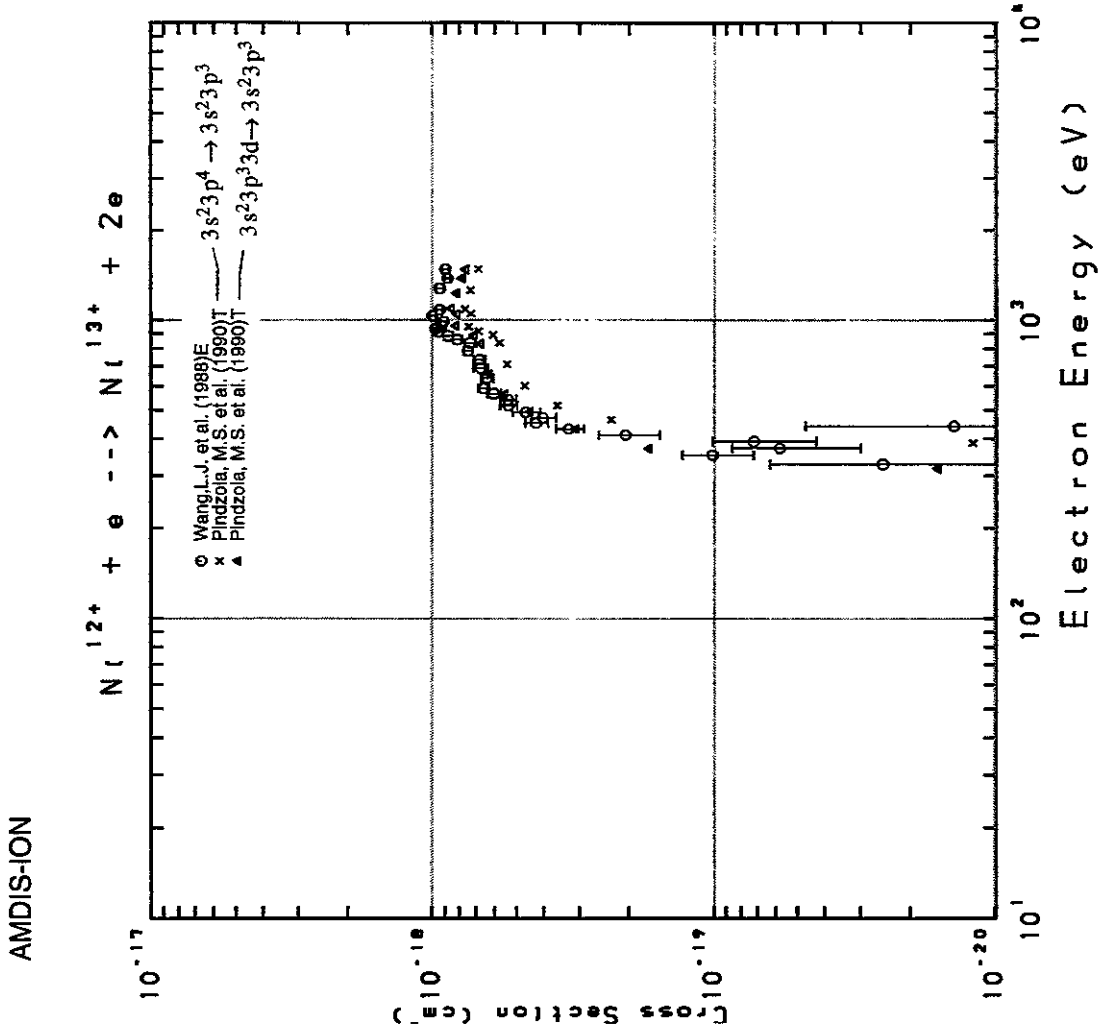

Fig. 234 $Ni^{12+} \rightarrow Ni^{13+}$

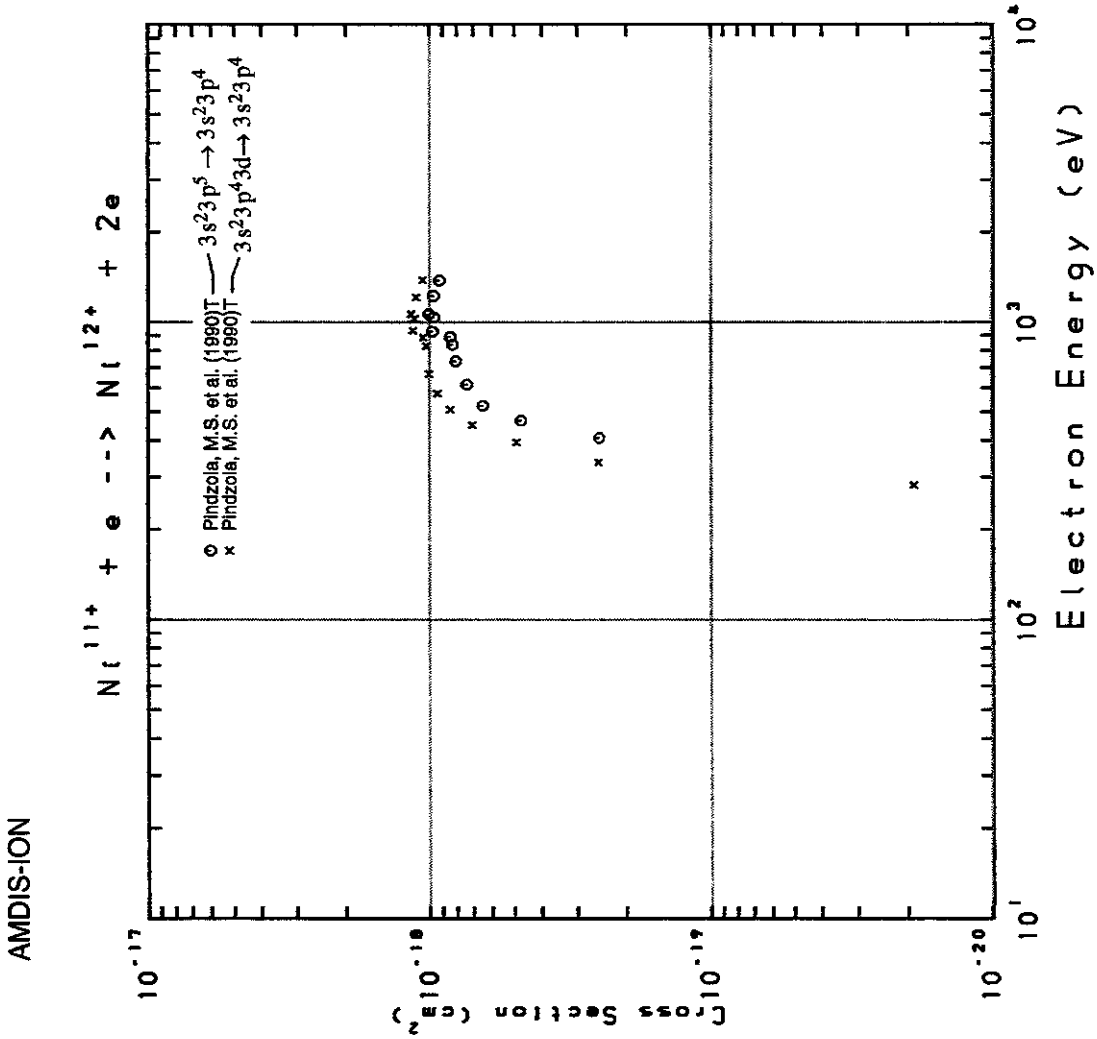

Fig. 233 $Ni^{11+} \rightarrow Ni^{12+}$

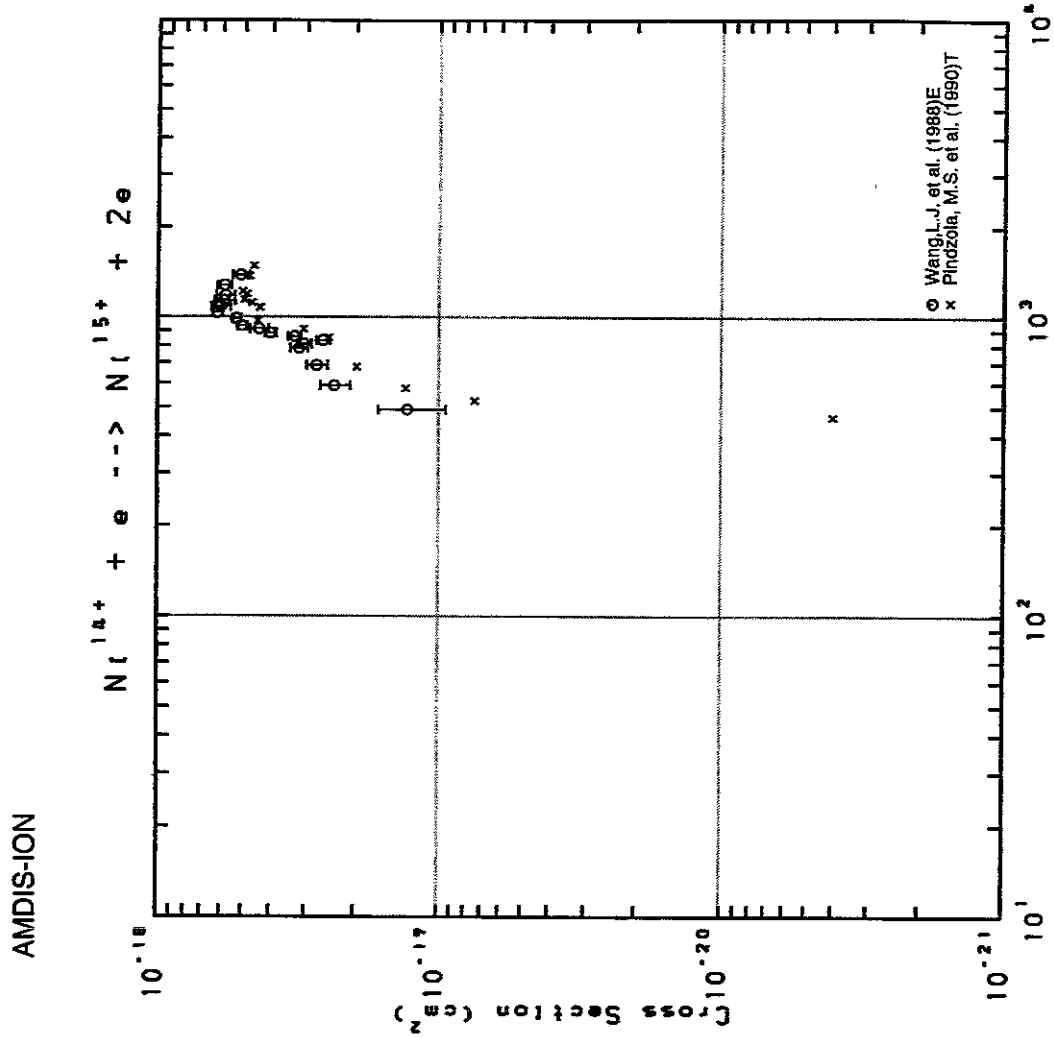

Fig. 236 $Ni^{14+} \rightarrow Ni^{15+}$

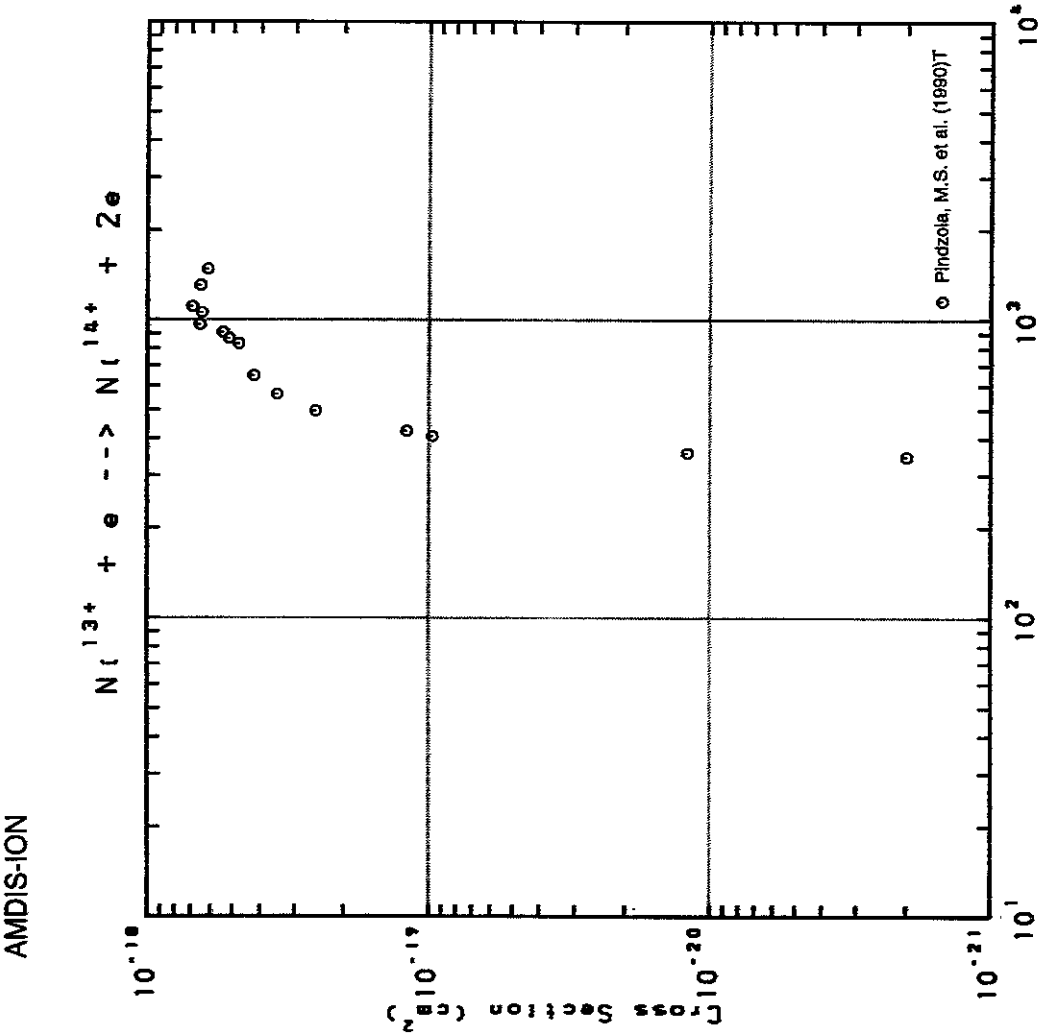

Fig. 235 $Ni^{13+} \rightarrow Ni^{14+}$

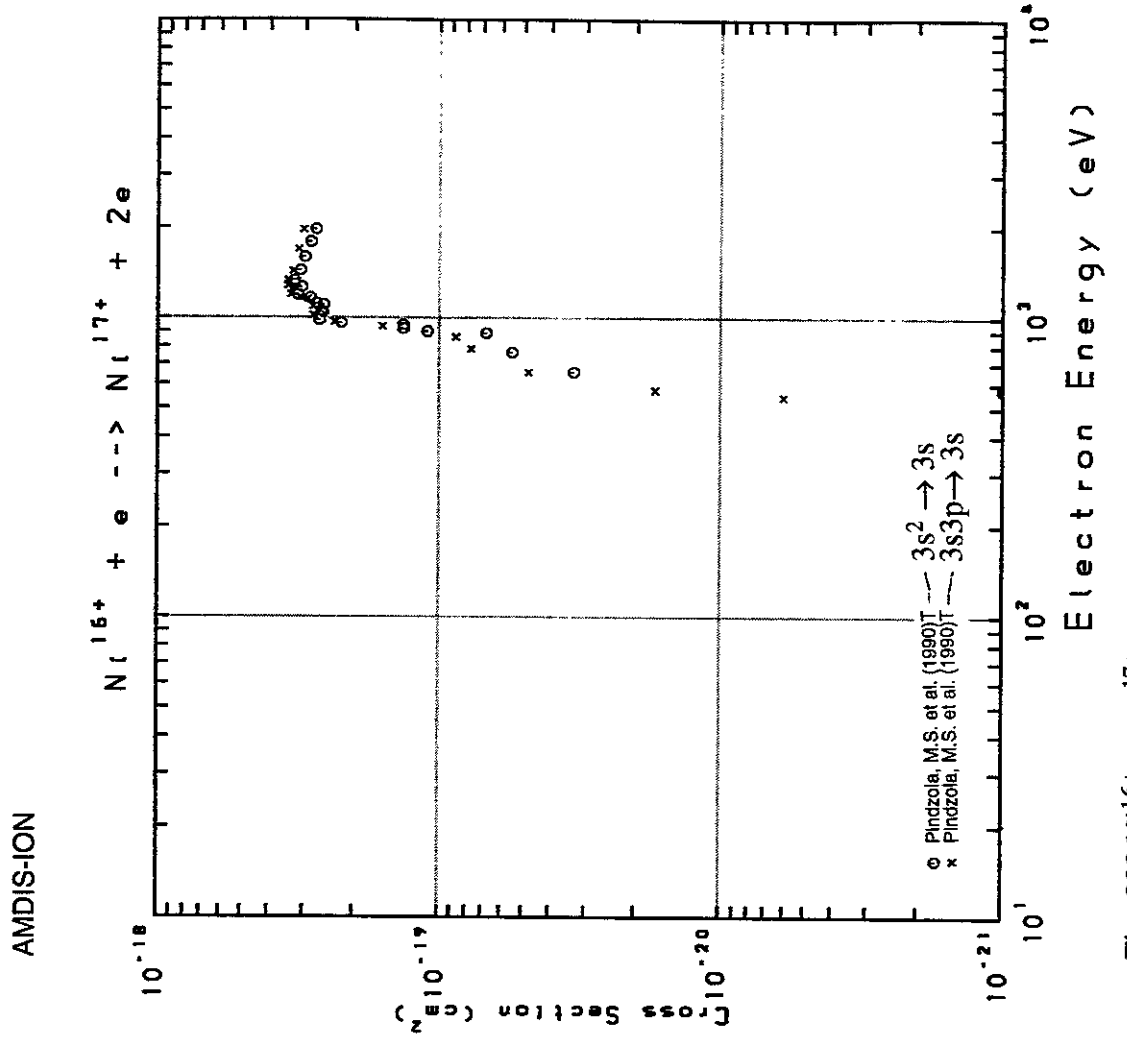

Fig. 238 $Ni^{16+} \rightarrow Ni^{17+}$

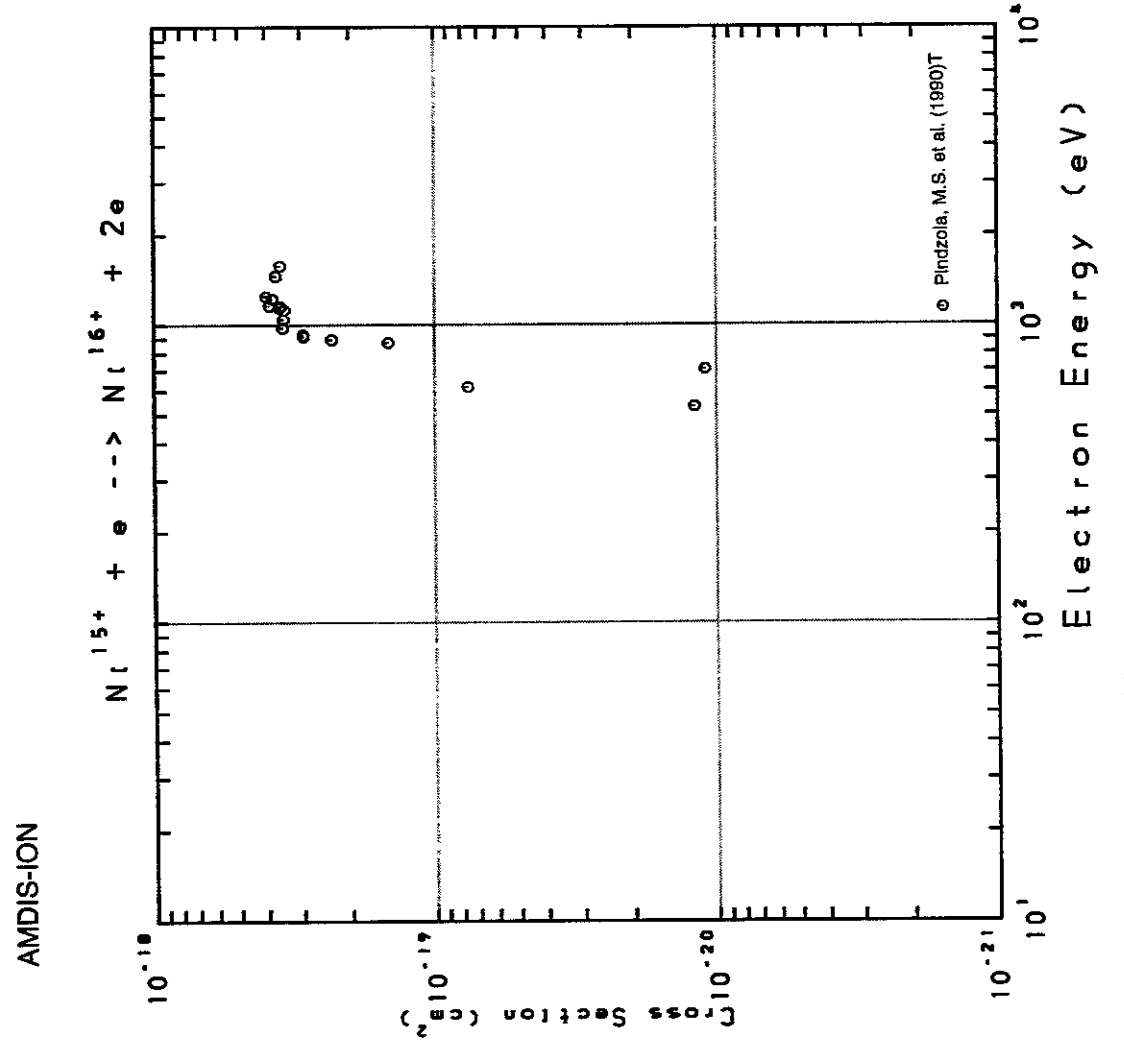

Fig. 237 $Ni^{15+} \rightarrow Ni^{16+}$

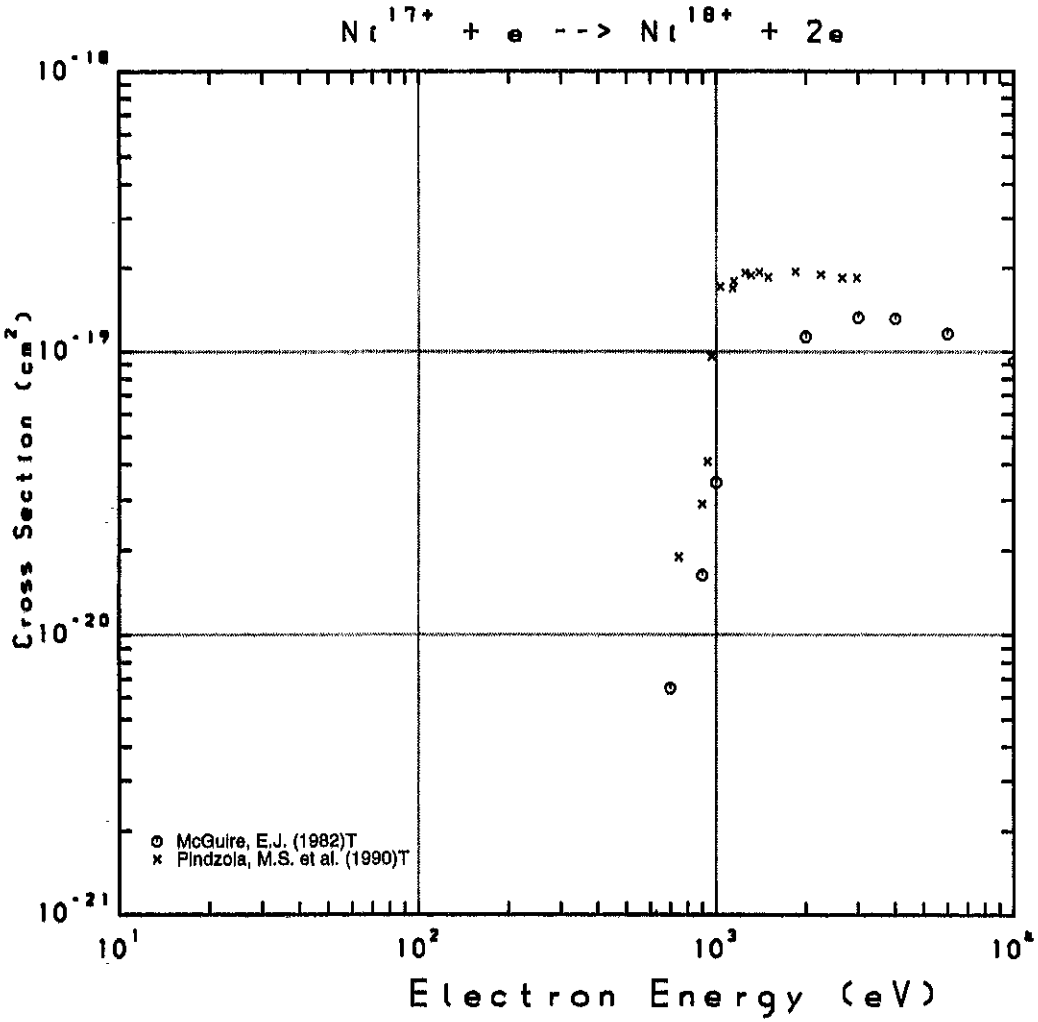

Fig. 239 $Ni^{17+} \rightarrow Ni^{18+}$

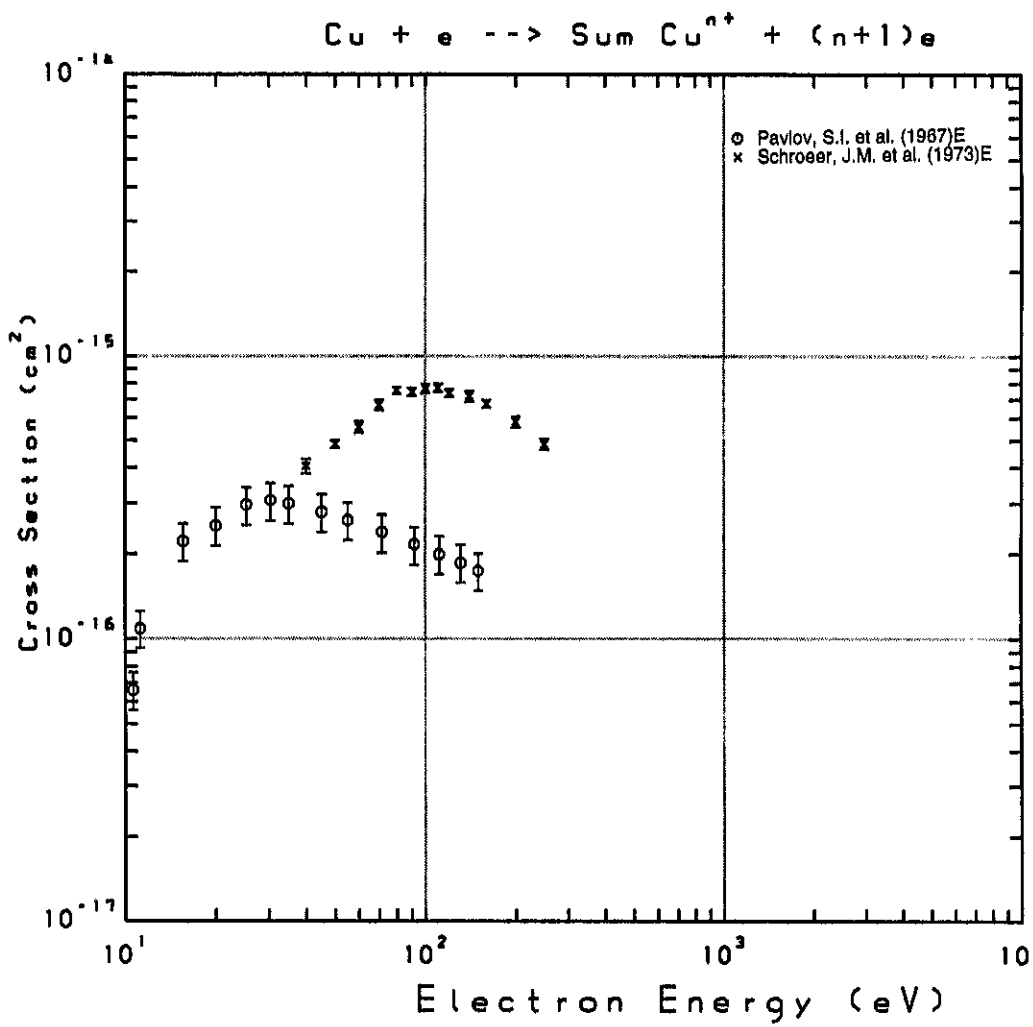

Fig. 240 $Cu \rightarrow \Sigma Cu^{n+}$

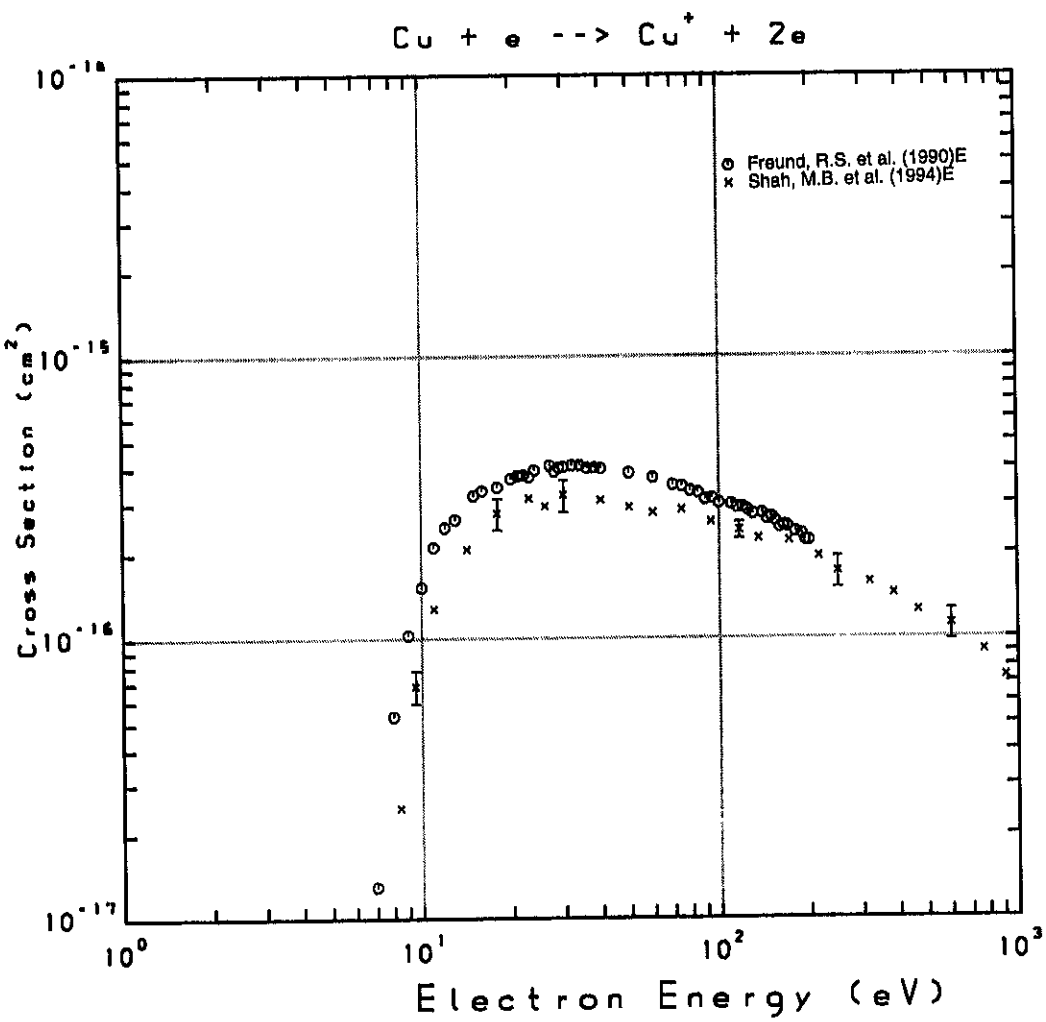

Fig. 241 Cu → Cu^{+}

AMDIS-ION

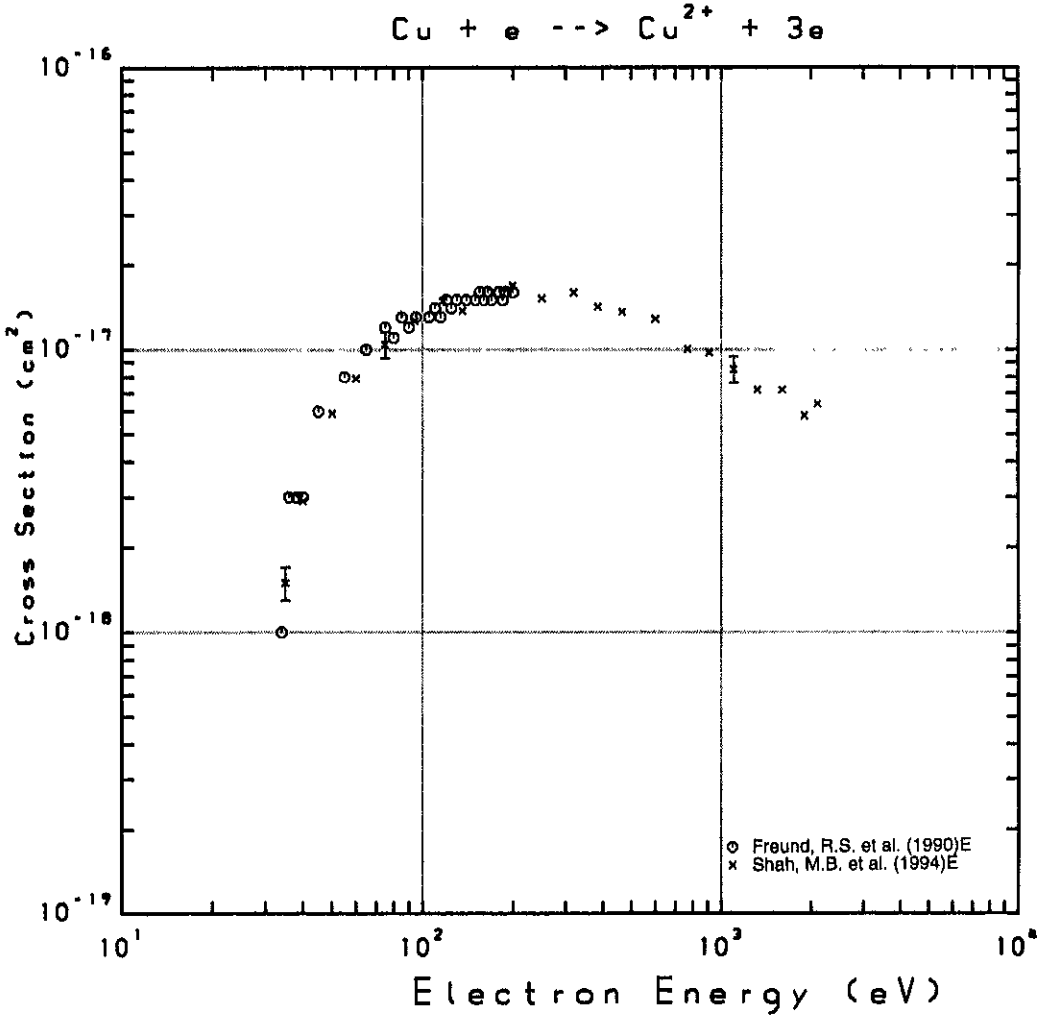

Fig. 242 Cu → Cu^{2+}

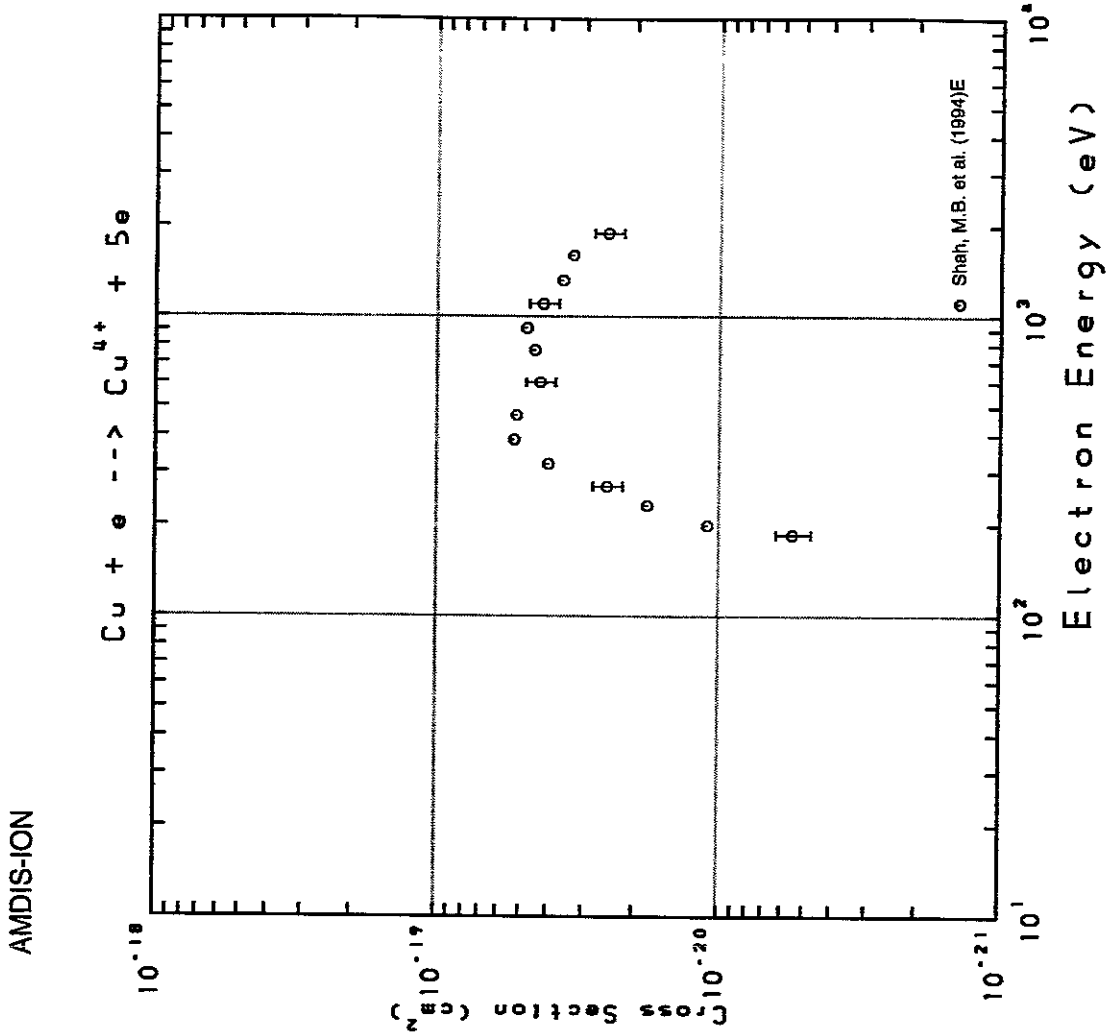

Fig. 244 Cu → Cu^{4+}

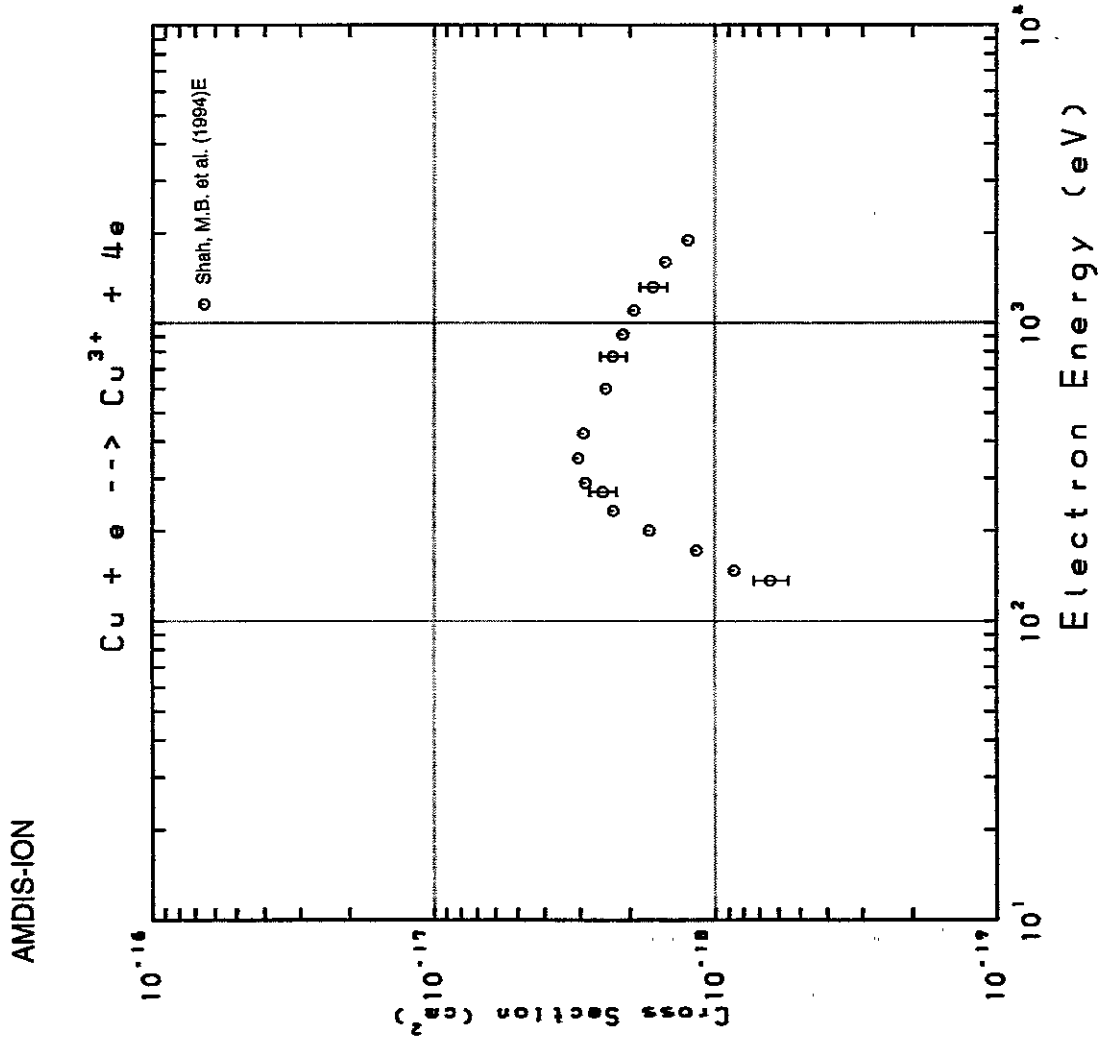

Fig. 243 Cu → Cu^{3+}

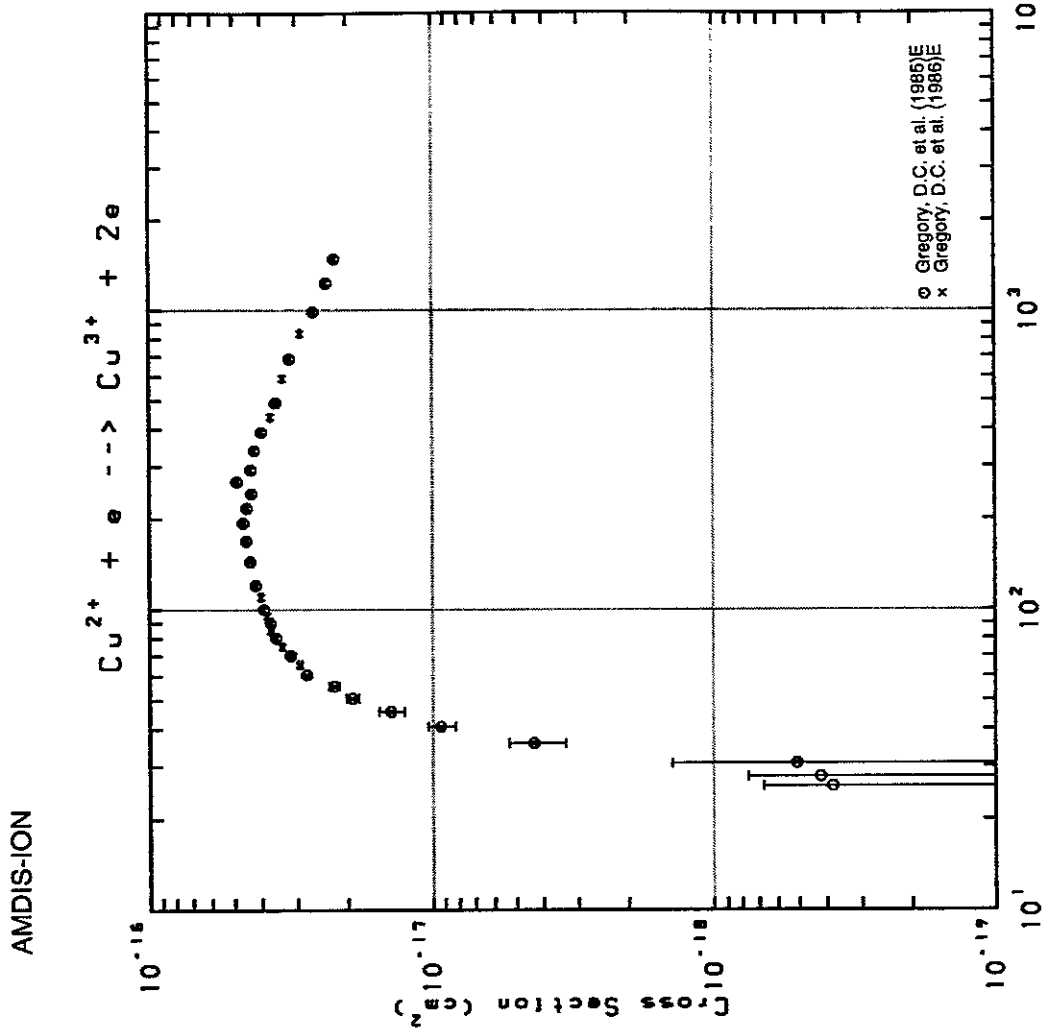

Fig. 245 Cu → Cu^{5+}

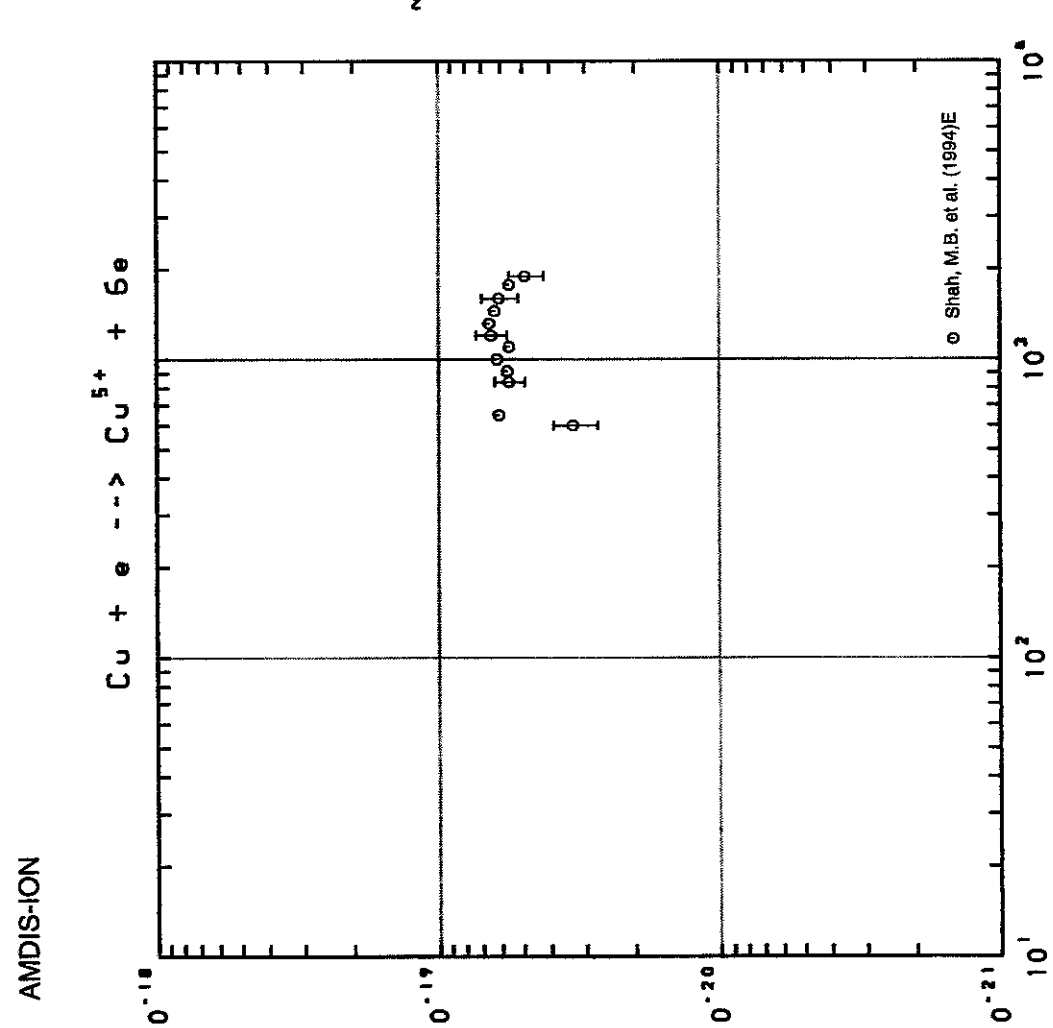

Fig. 246 Cu^{2+} → Cu^{3+}

AMDIS-ION

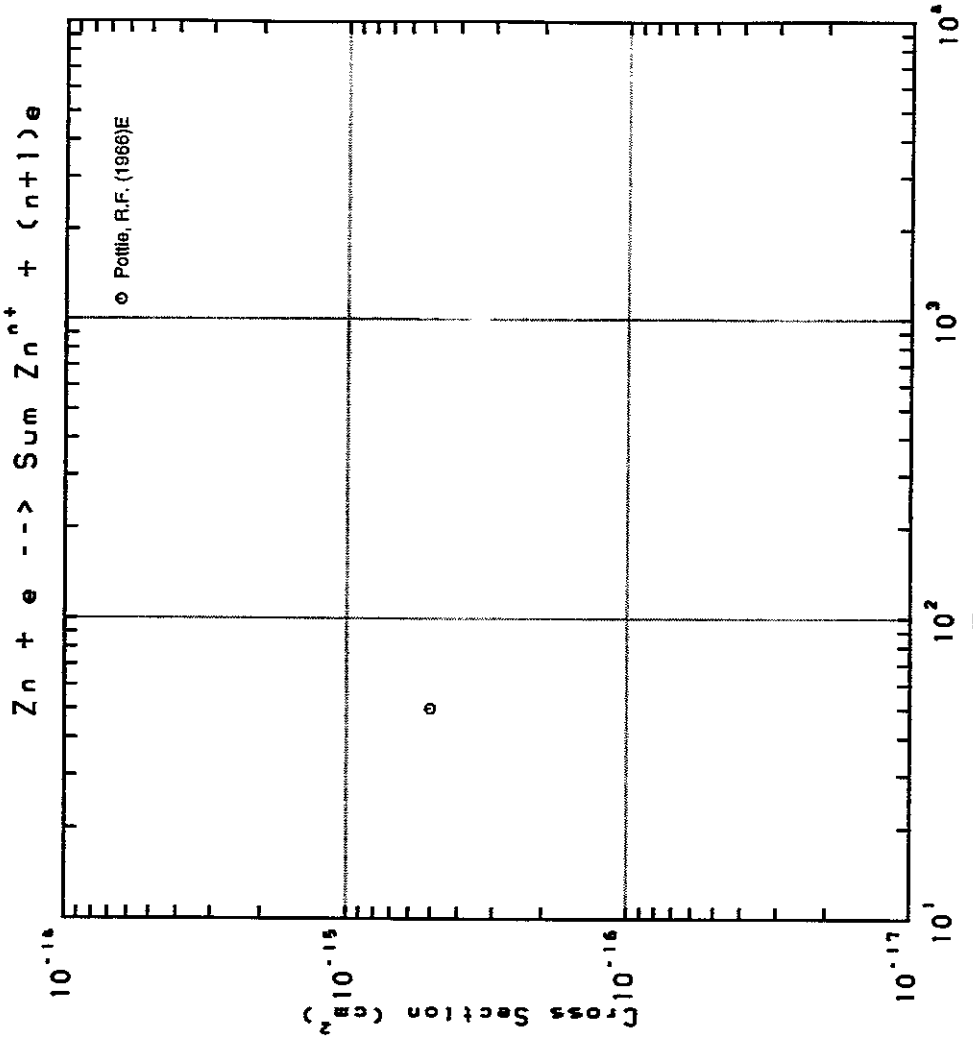

Fig. 248 $Zn \rightarrow \Sigma Zn^{n+}$

AMDIS-ION

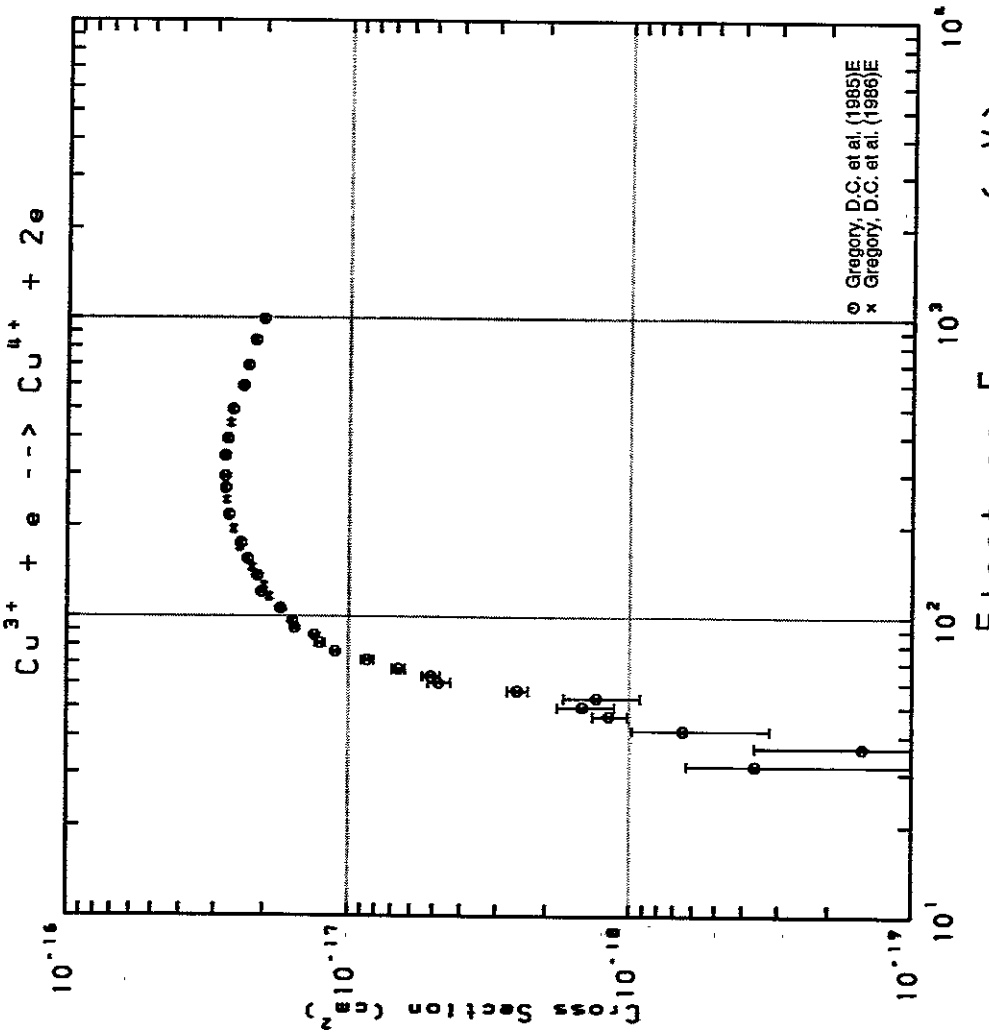

Fig. 247 $Cu^{3+} \rightarrow Cu^{4+}$

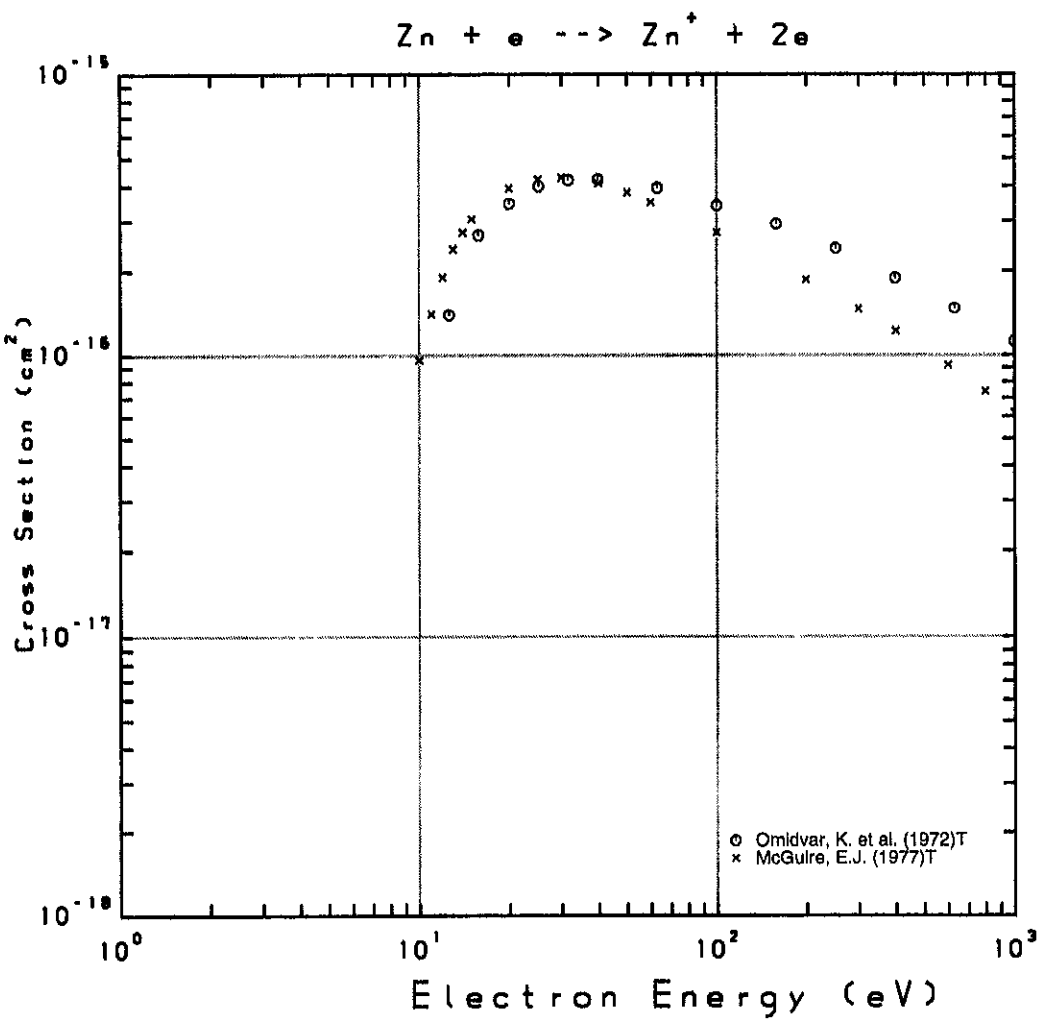

Fig. 249 $Zn \rightarrow Zn^{+}$

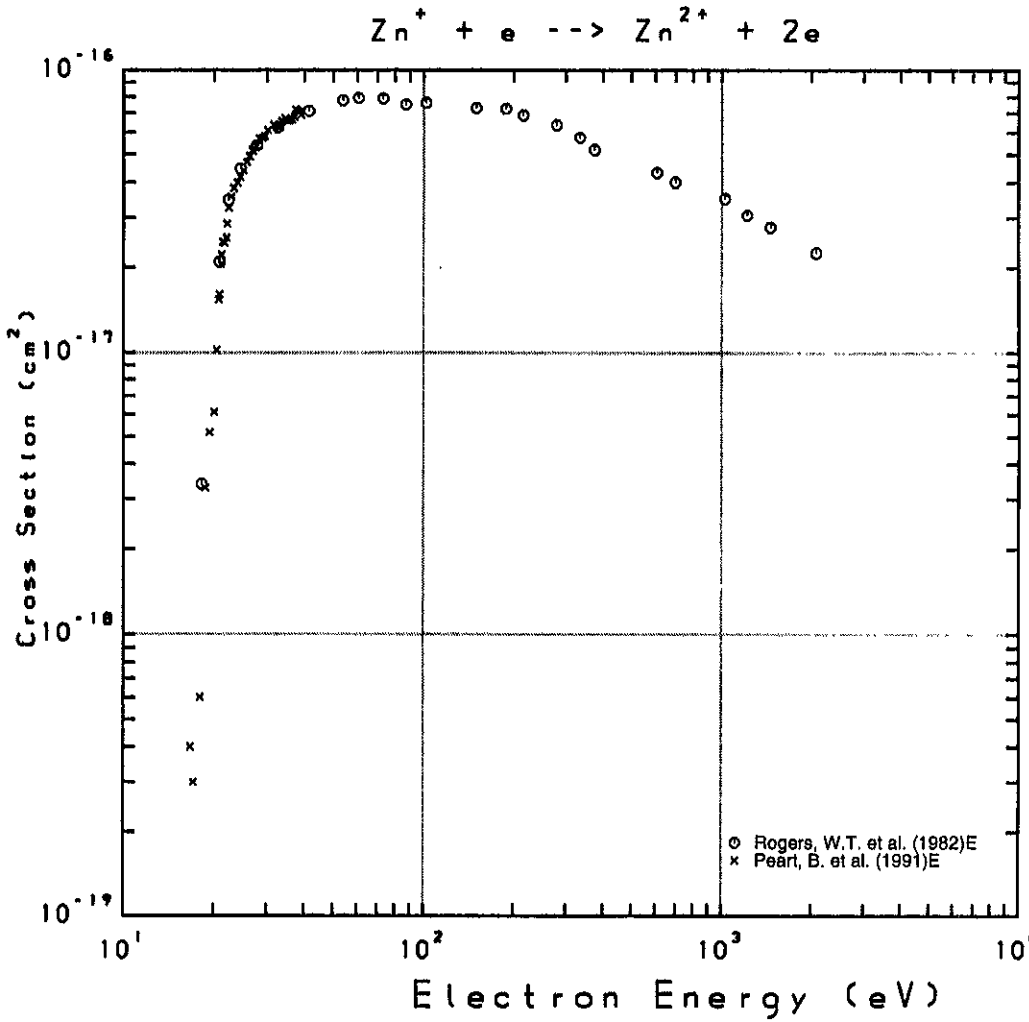

Fig. 250 $Zn^{+} \rightarrow Zn^{2+}$

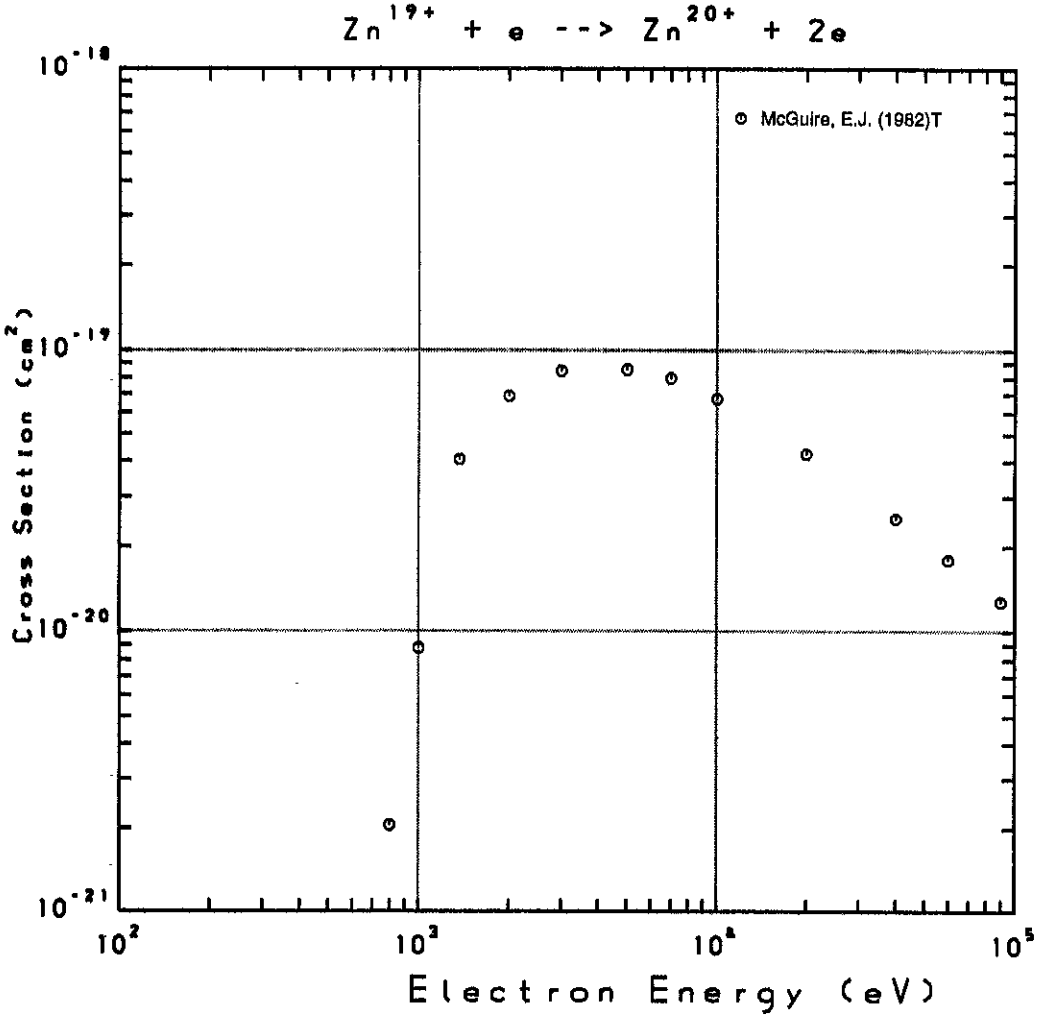

Fig. 251 $Zn^{19+} \rightarrow Zn^{20+}$

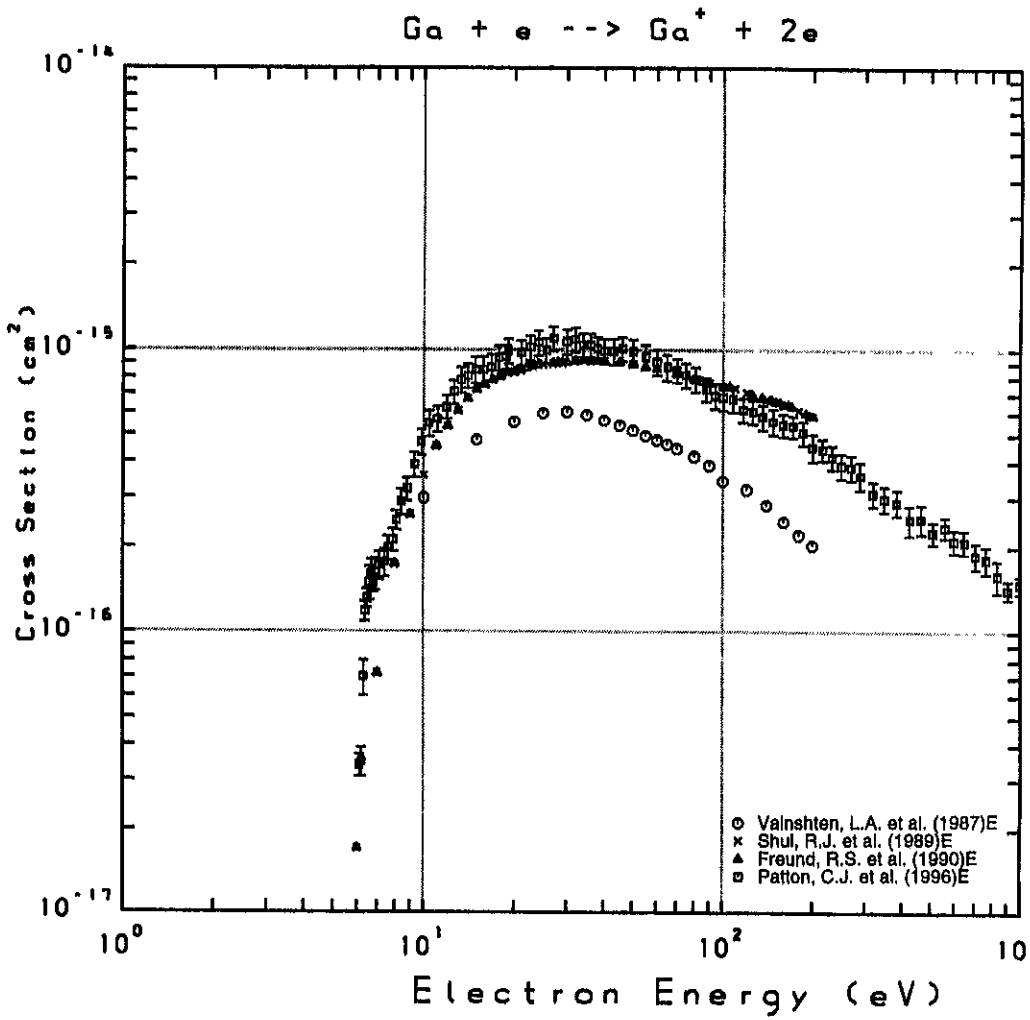

Fig. 252 $Ga \rightarrow Ga^{+}$

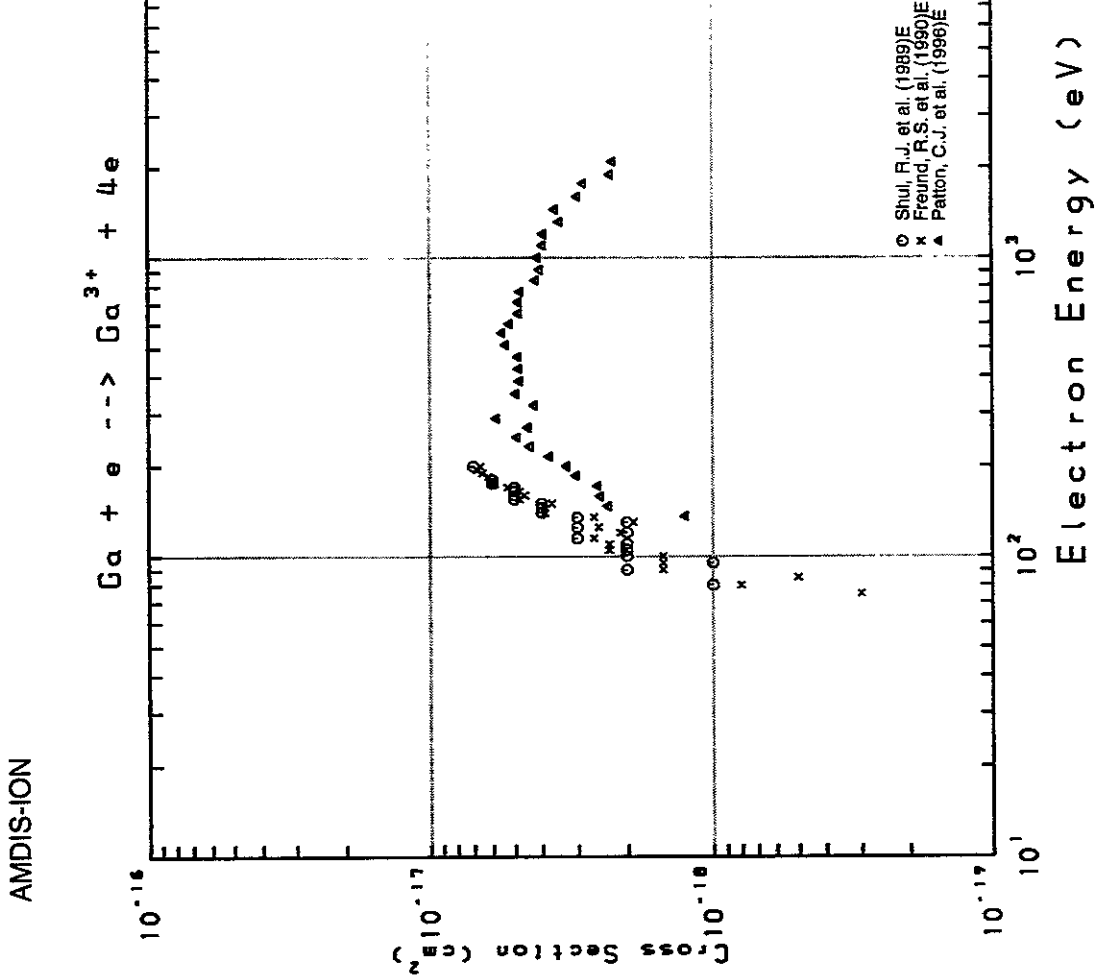

Fig. 254 Ga → Ga^{3+}

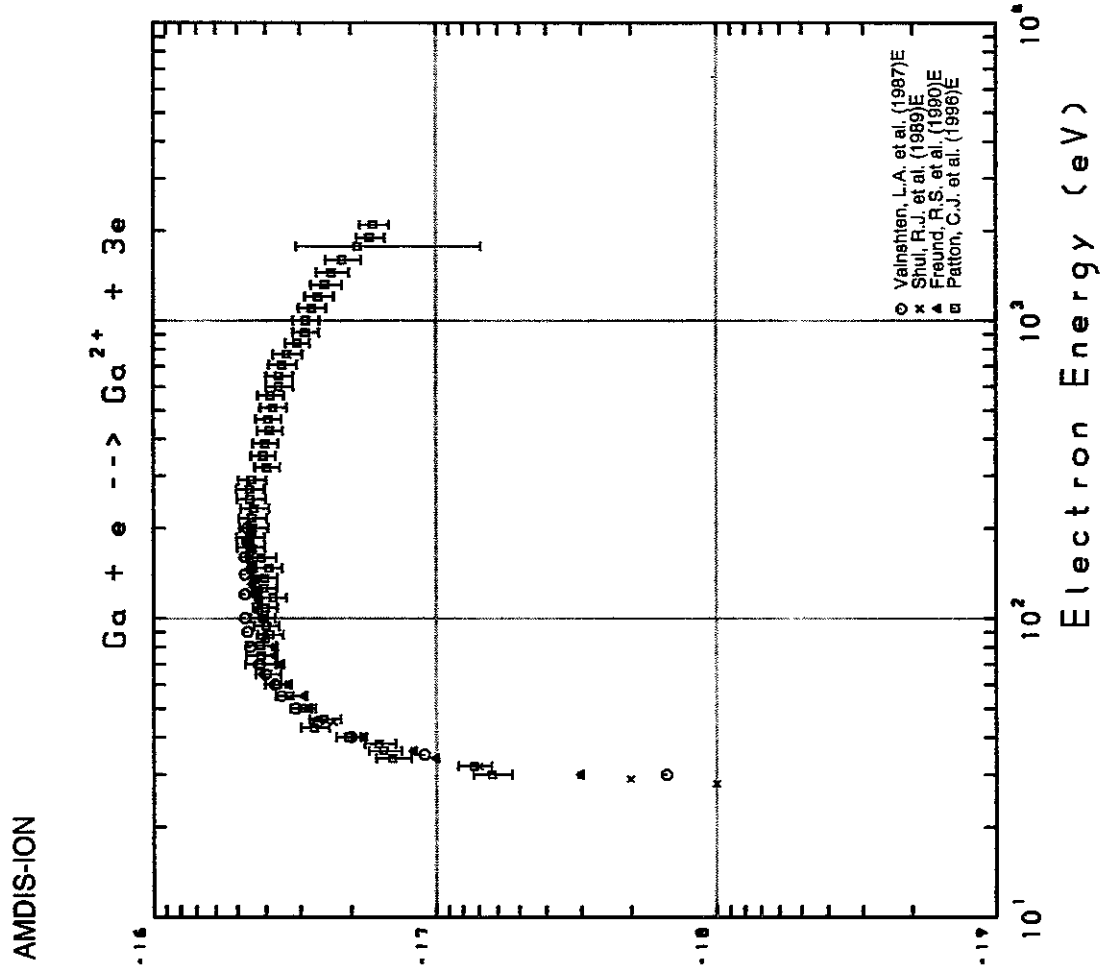

Fig. 253 Ga → Ga^{2+}

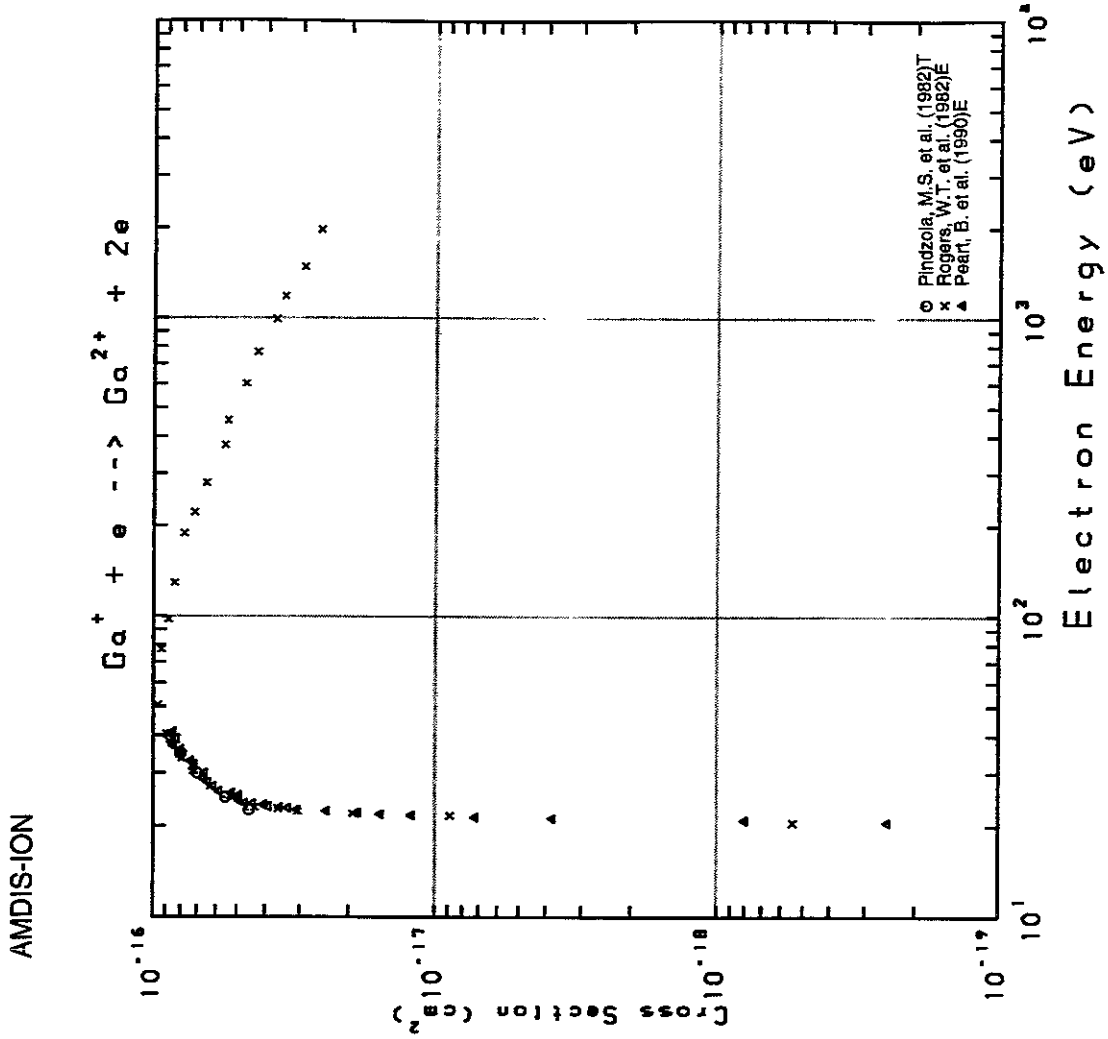

Fig. 255 Ga → Ga^{4+}

Fig. 256 Ga^{+} → Ga^{2+}

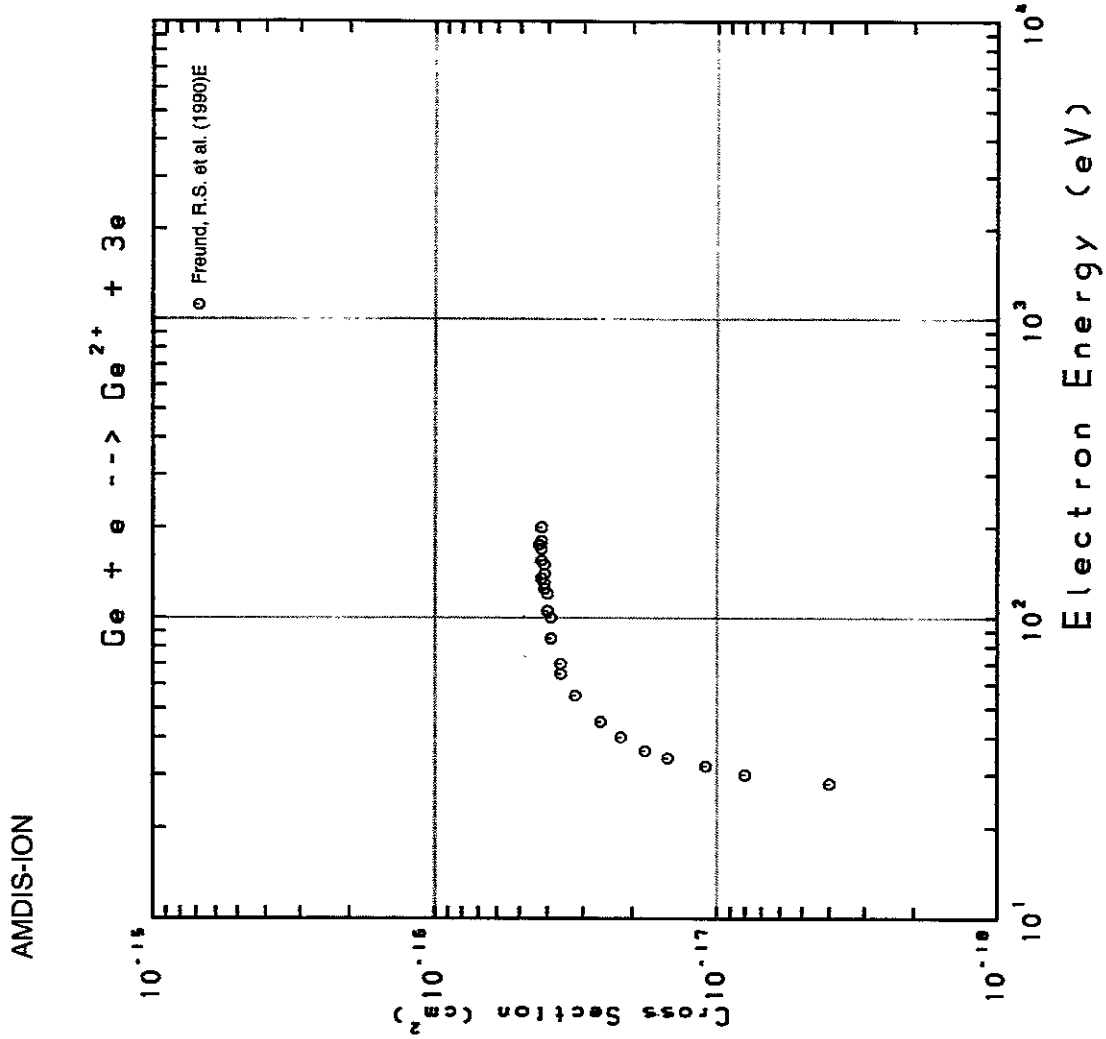

Fig. 258 Ge → Ge^{2+}

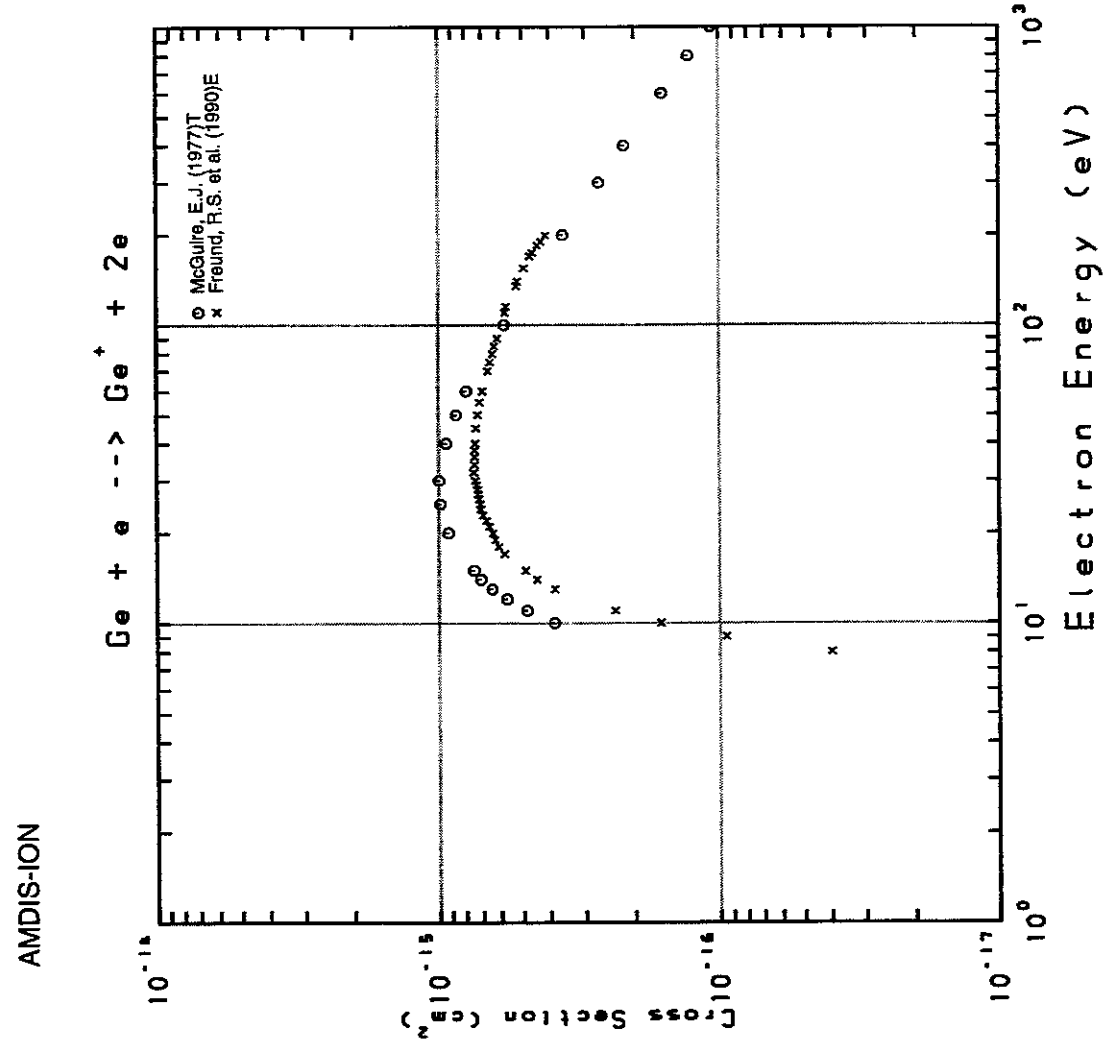

Fig. 257 Ge → Ge^{+}

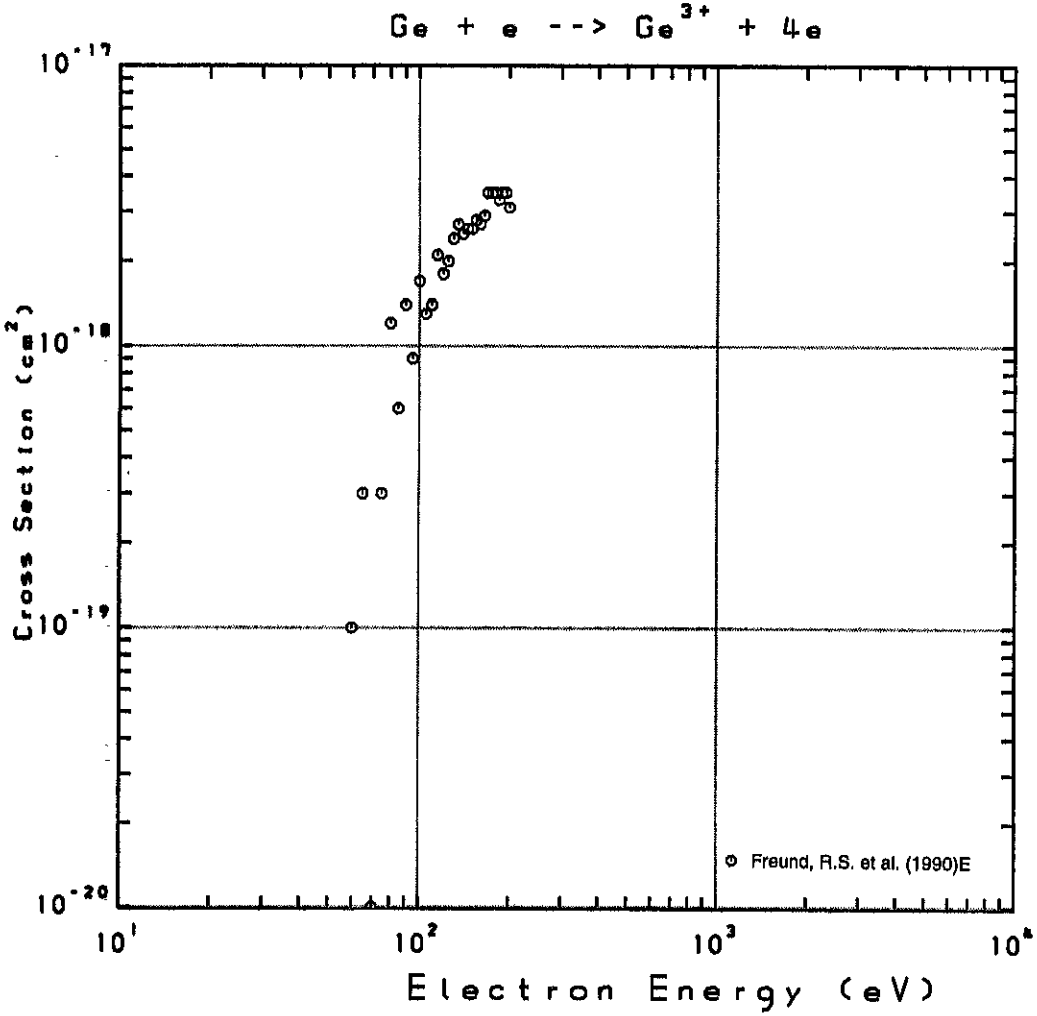

Fig. 259 Ge → Ge^{3+}

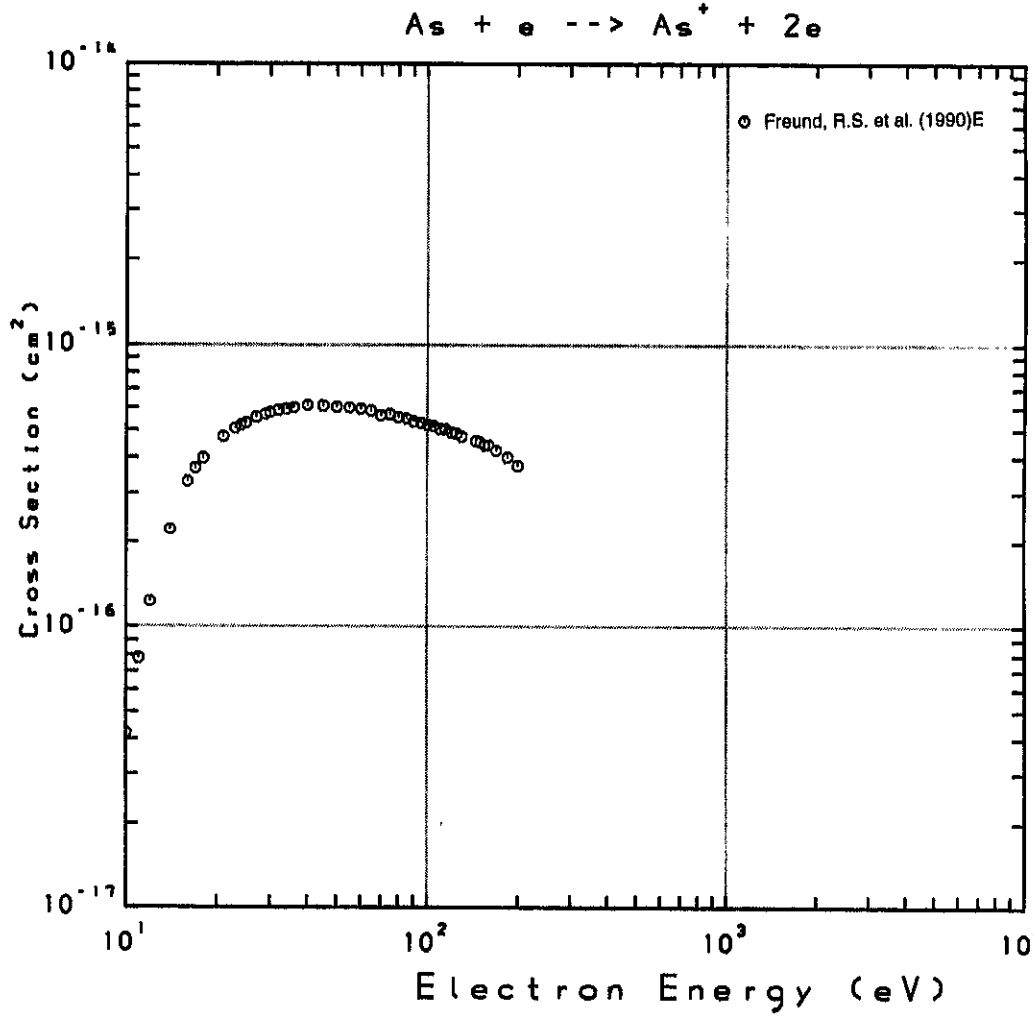

Fig. 260 As → As^{+}

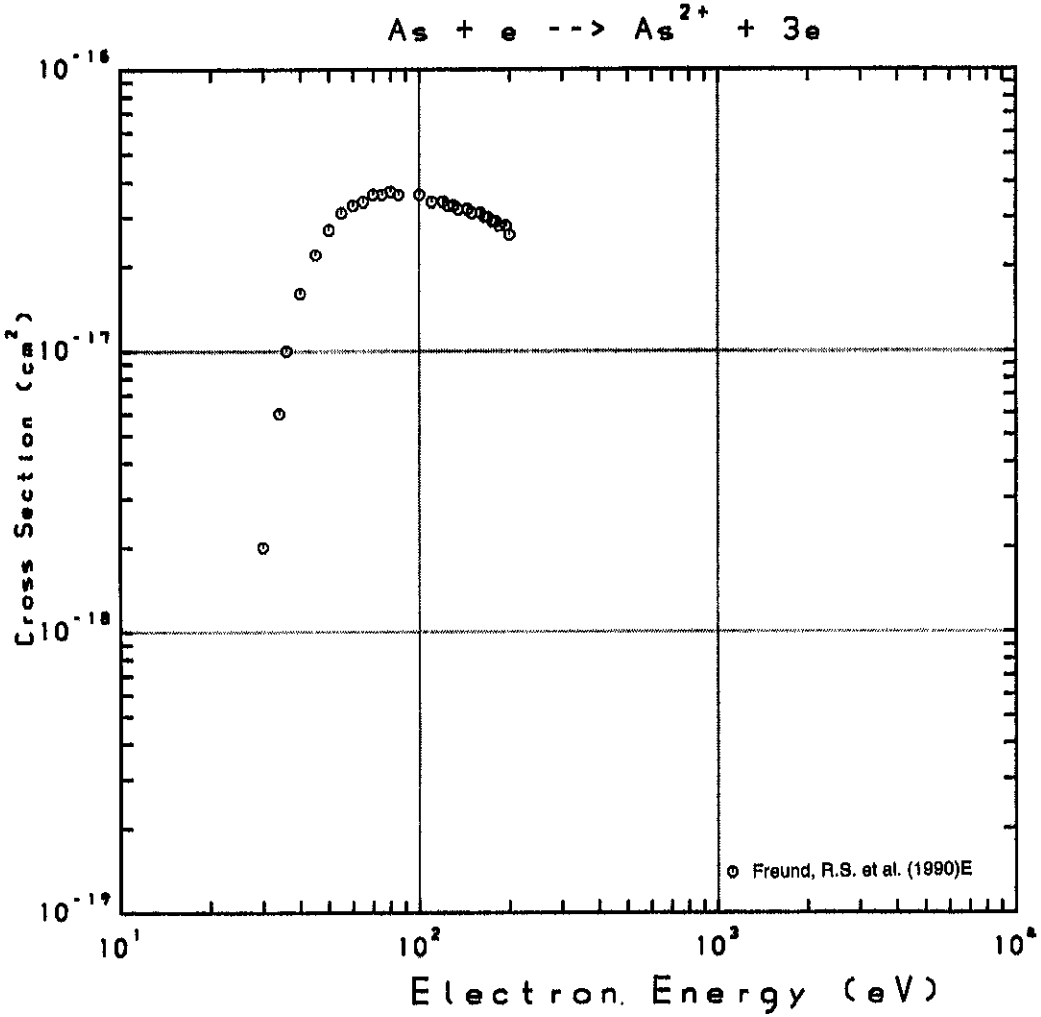

Fig. 261 As → As^{2+}

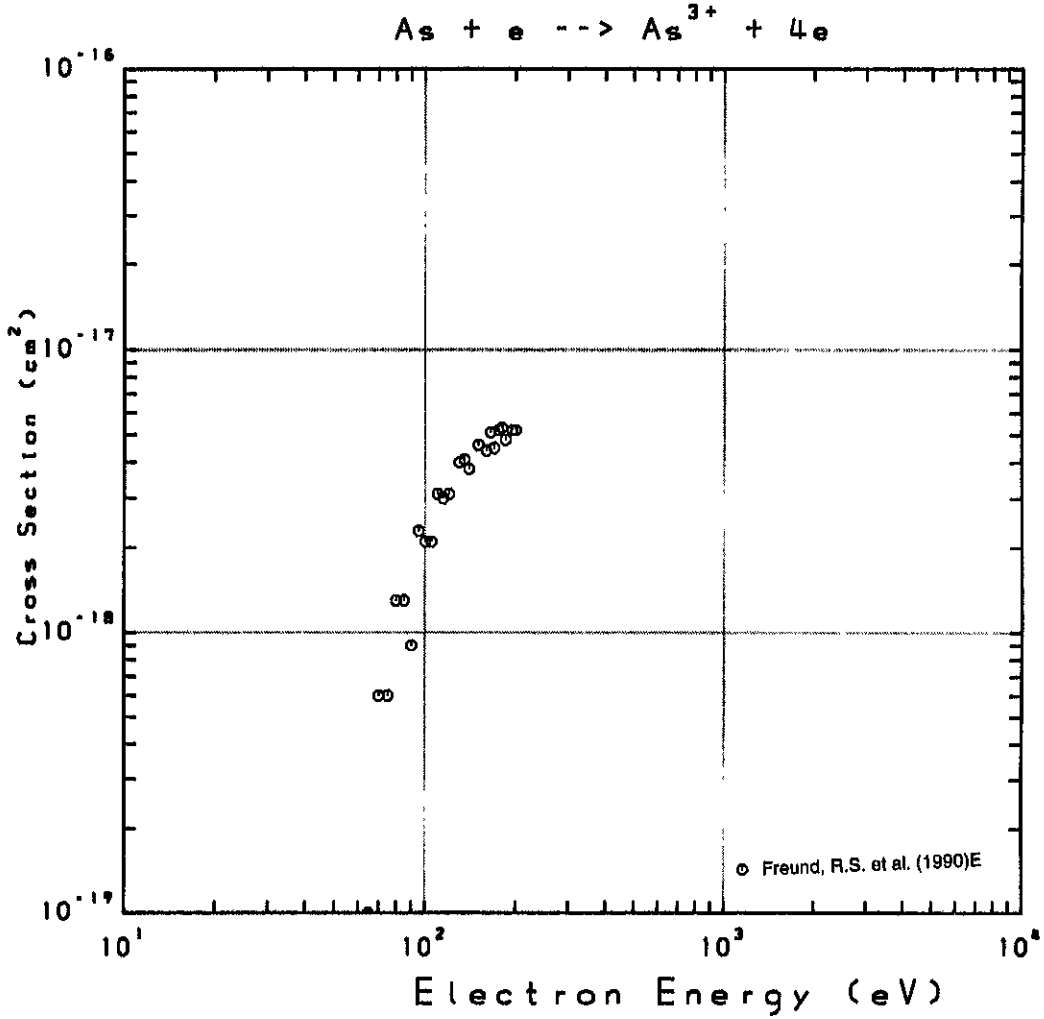

Fig. 262 As → As^{3+}

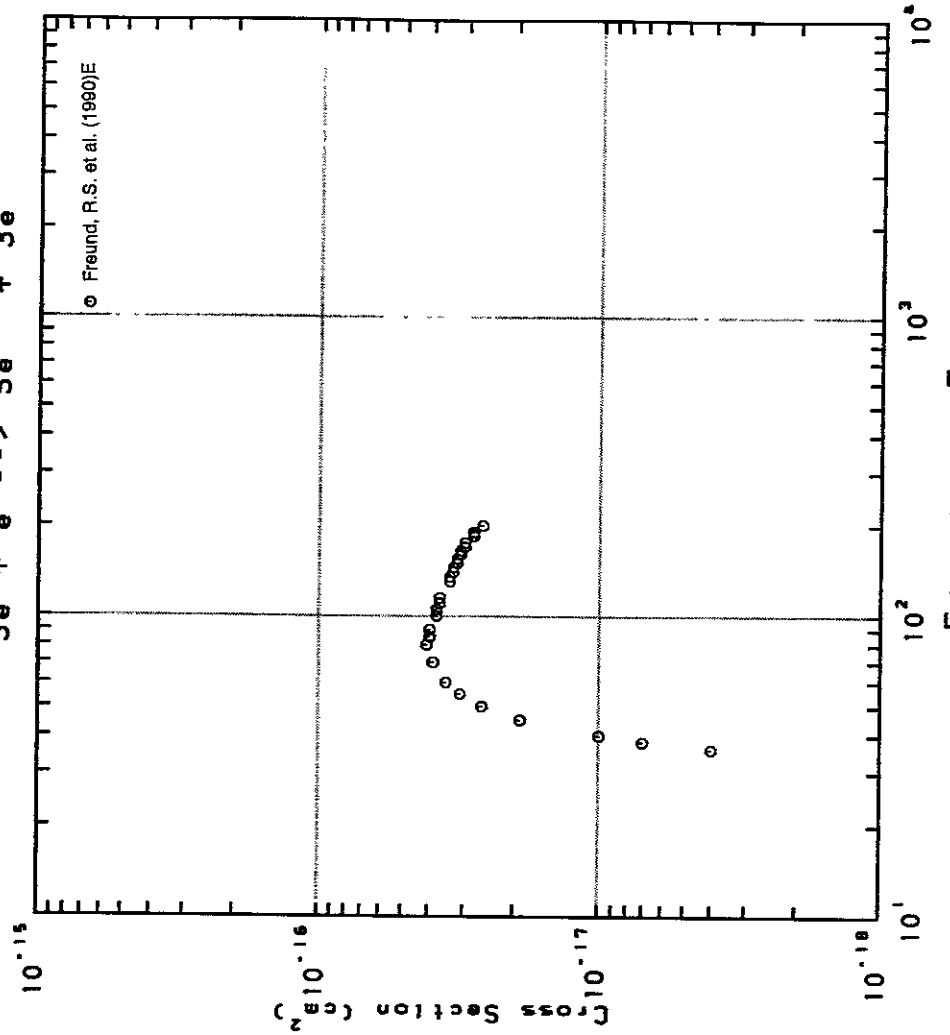

Fig. 264 $Se \rightarrow Se^{2+}$

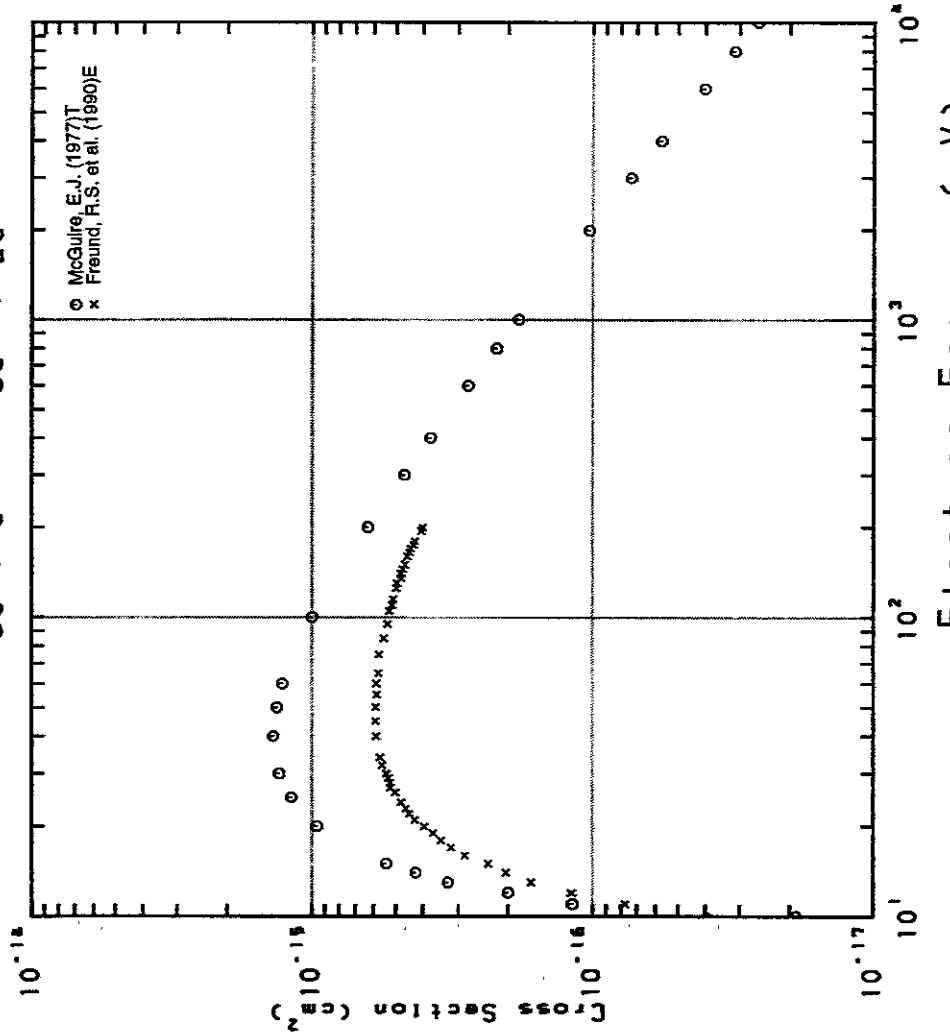

Fig. 263 $Se \rightarrow Se^{+}$

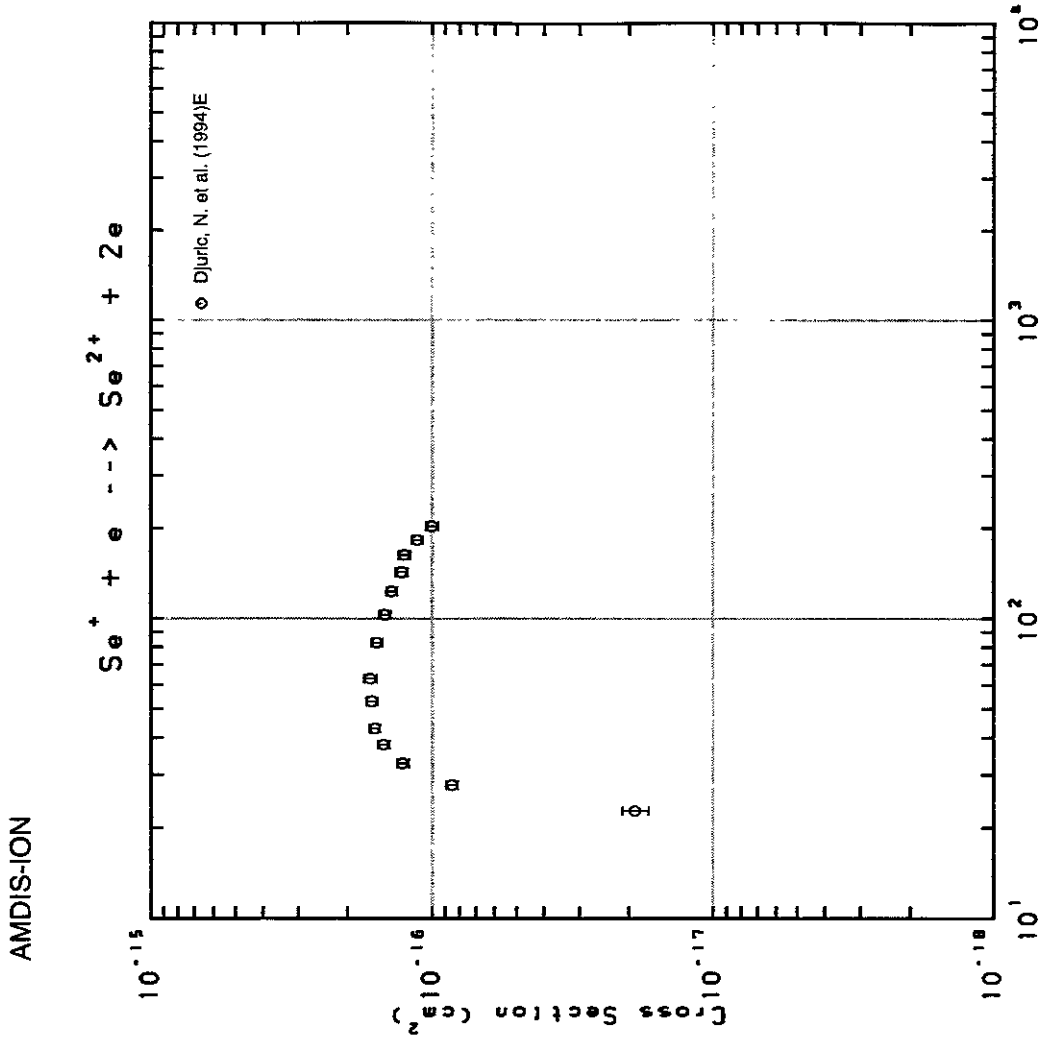

Fig. 265 $Se \rightarrow Se^{3+}$

Fig. 266 $Se^{+} \rightarrow Se^{2+}$

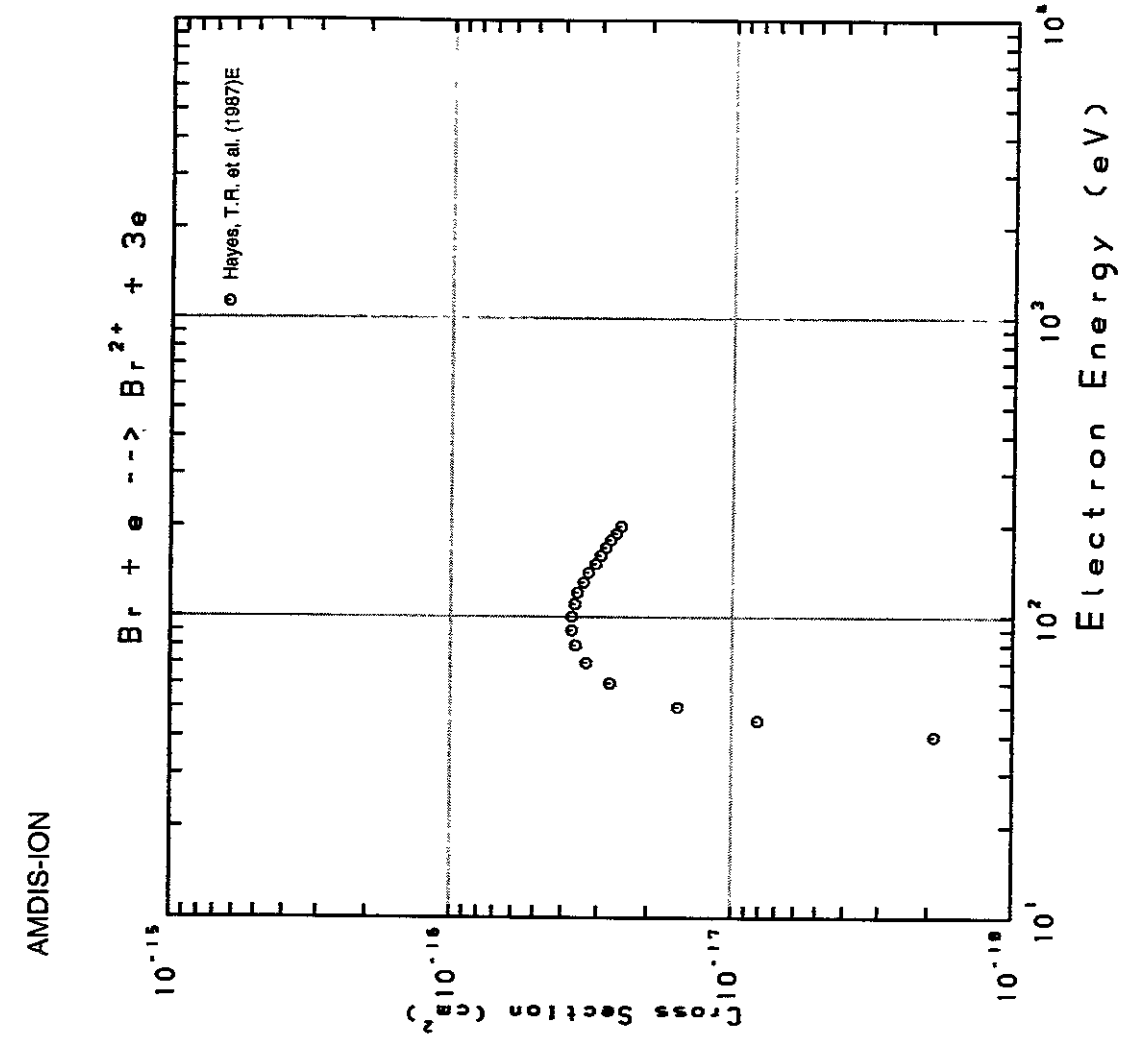

Fig. 268 Br → Br^{2+}

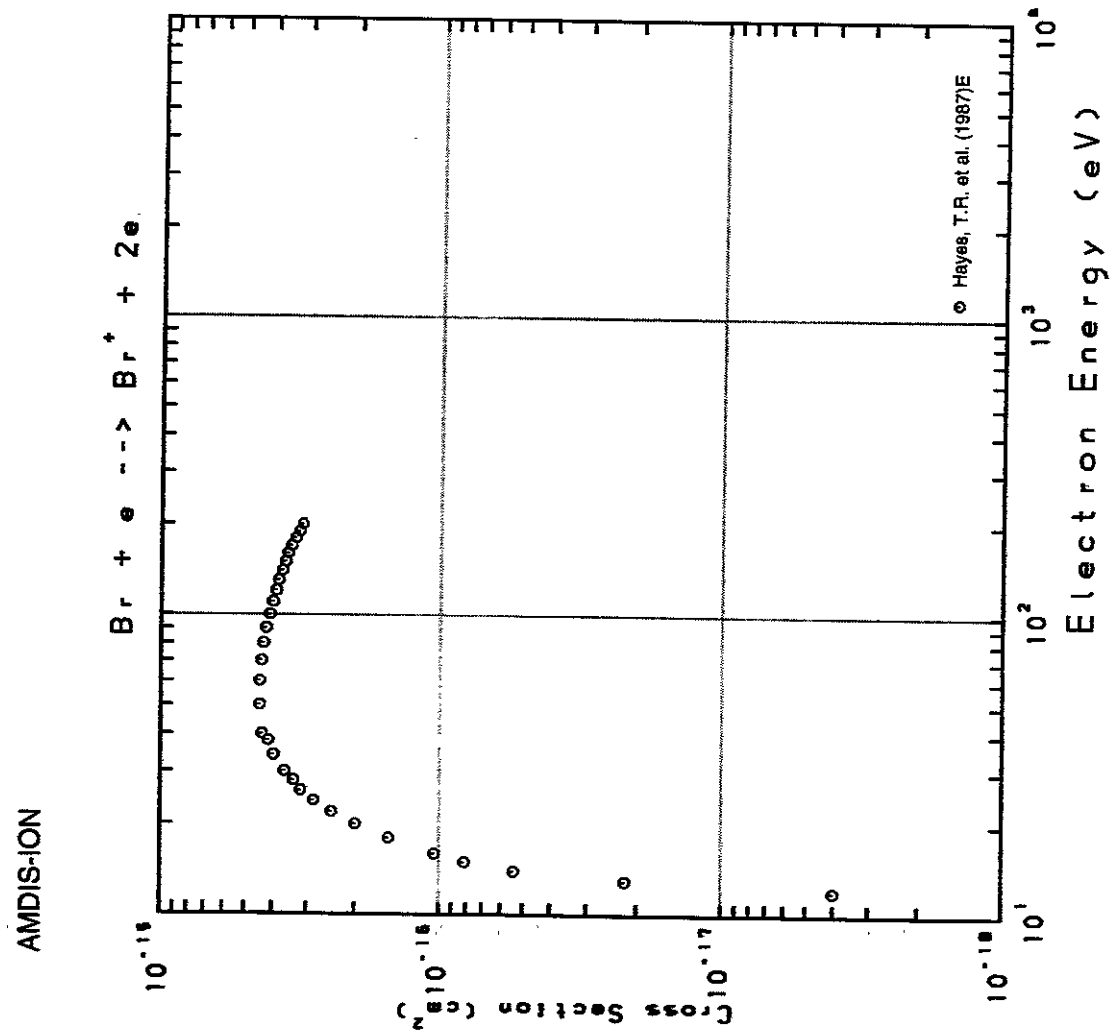

Fig. 267 Br → Br^{+}

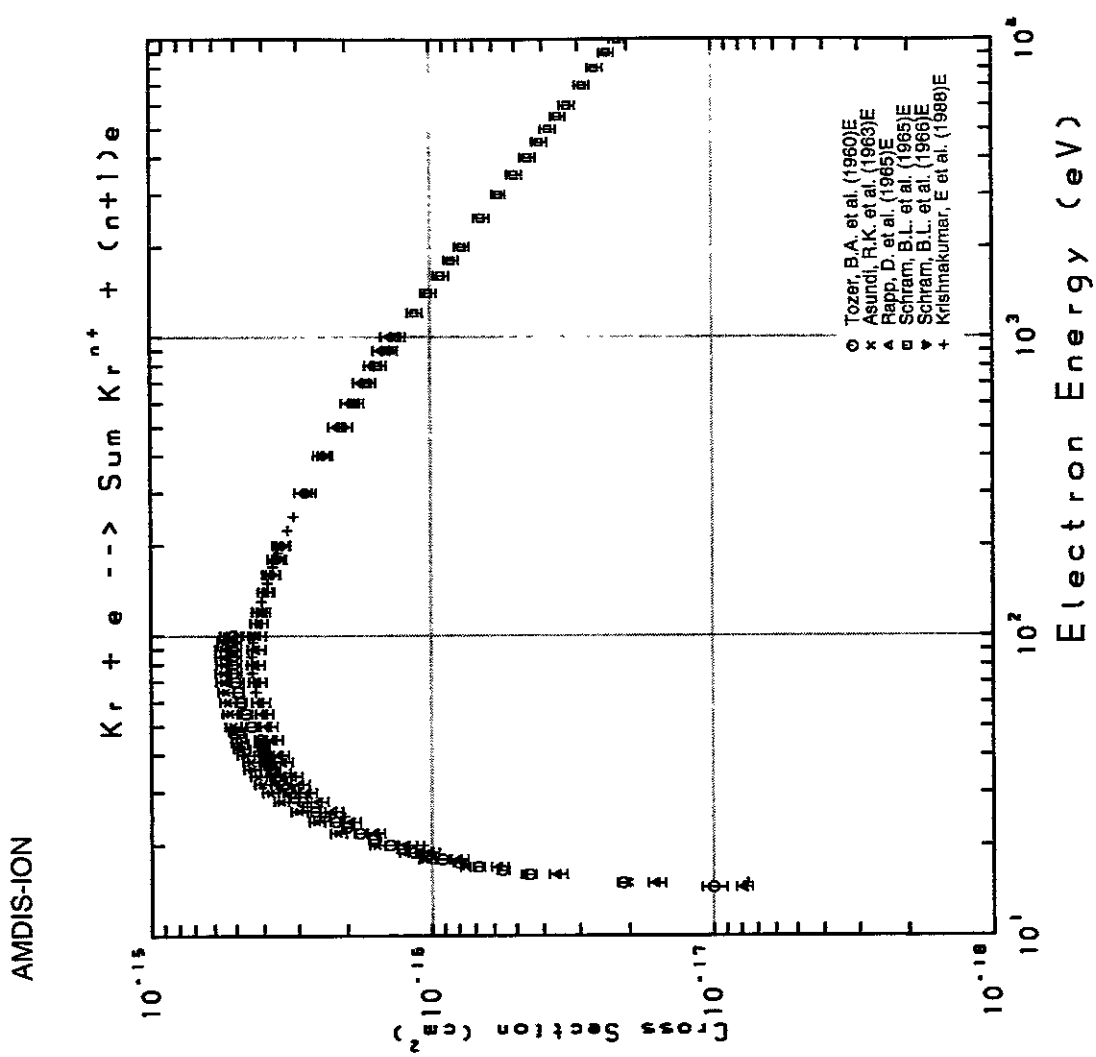

Fig. 270 $Kr \rightarrow \Sigma Kr^{n+}$

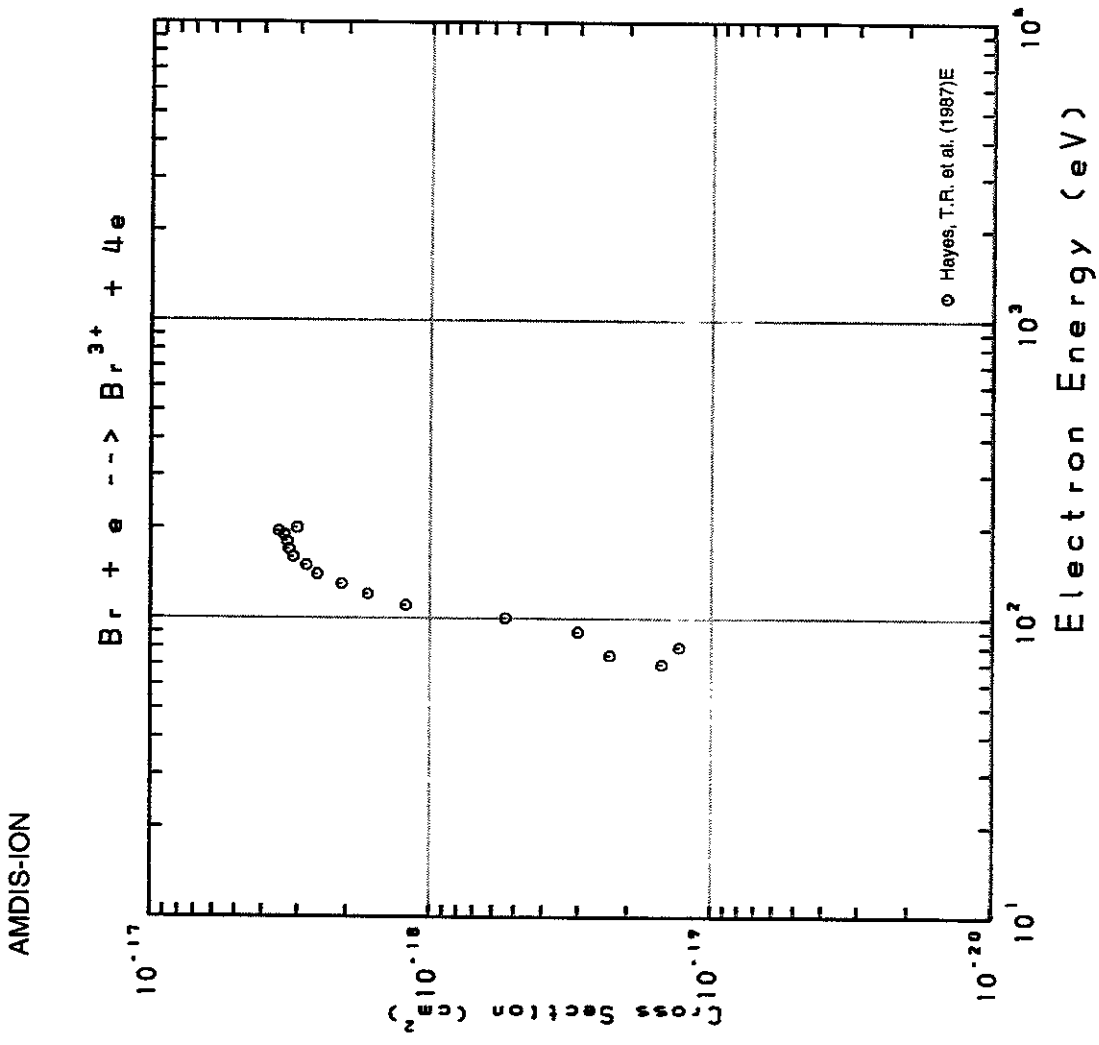

Fig. 269 $Br \rightarrow Br^{3+}$

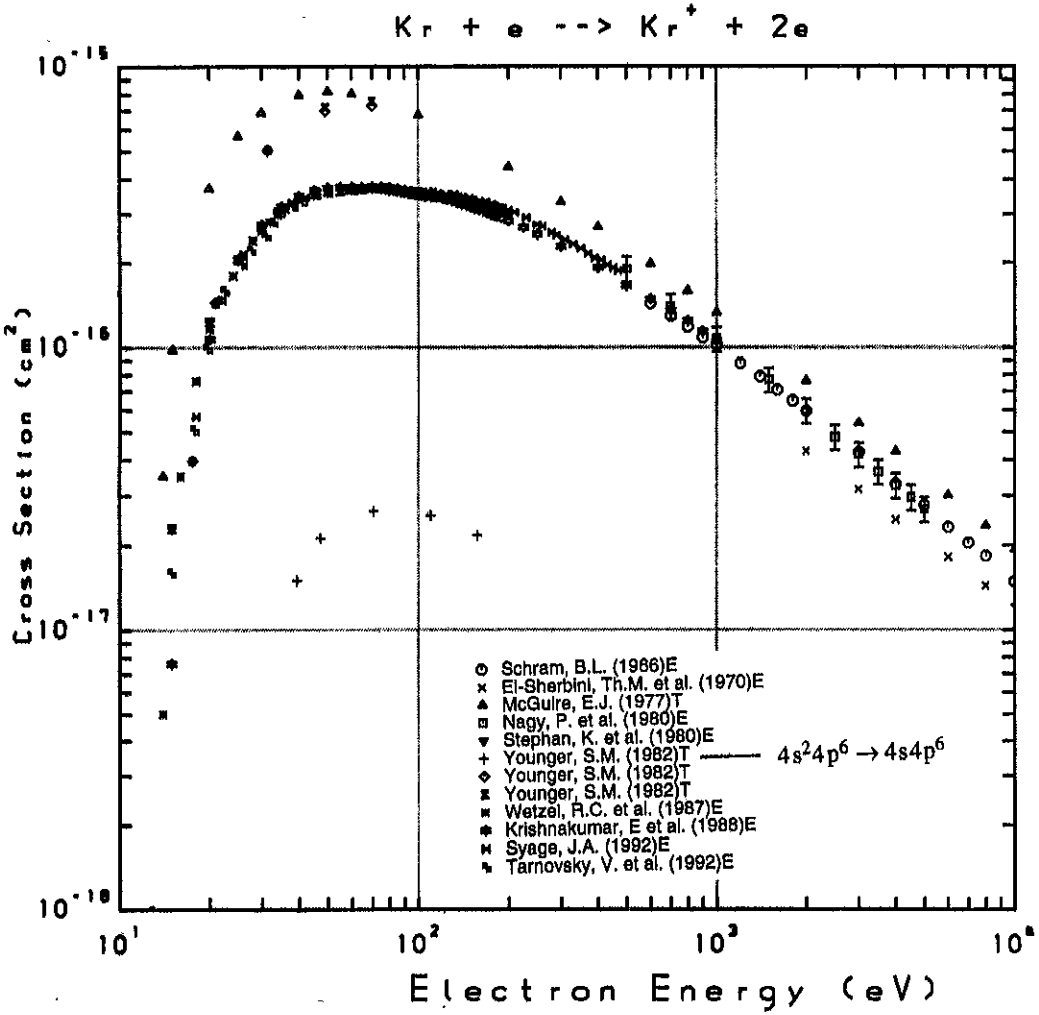

Fig. 271 Kr → Kr^{+}

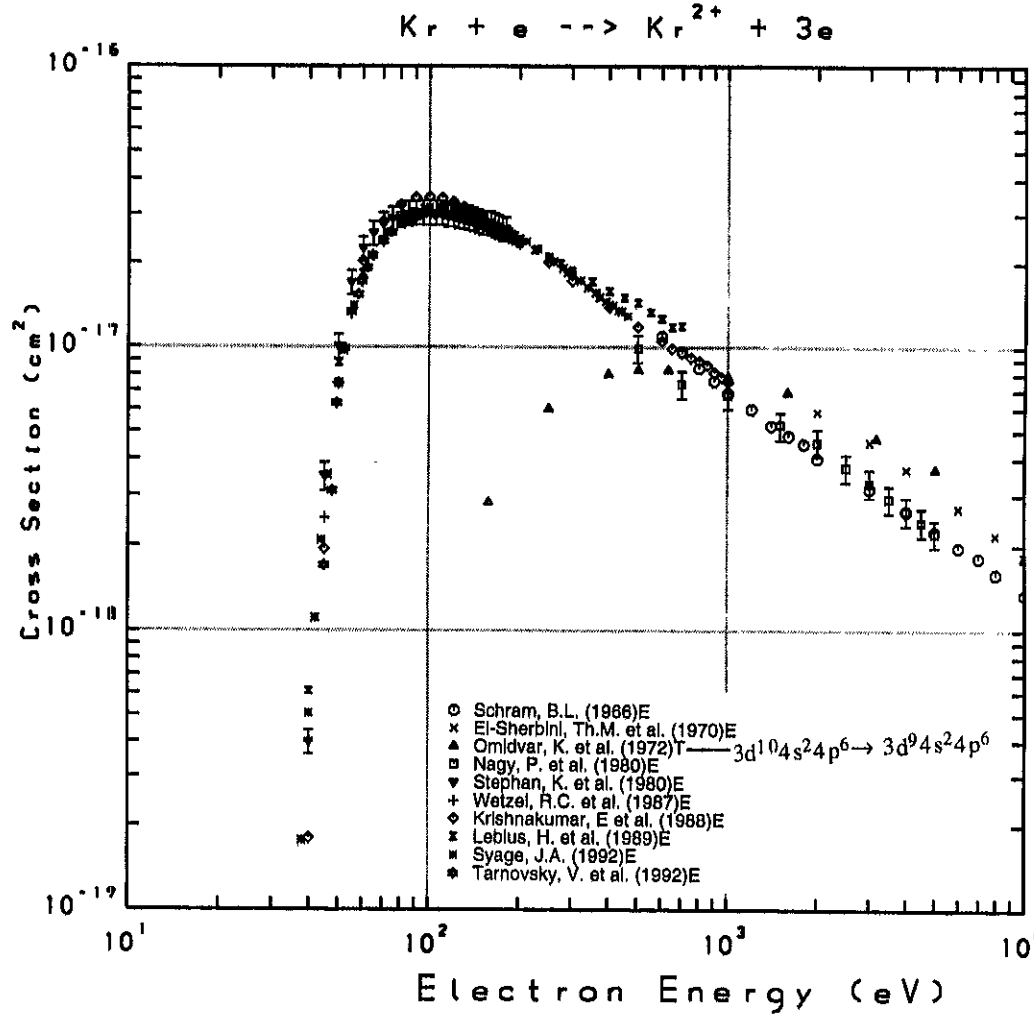

Fig. 272 Kr → Kr^{2+}

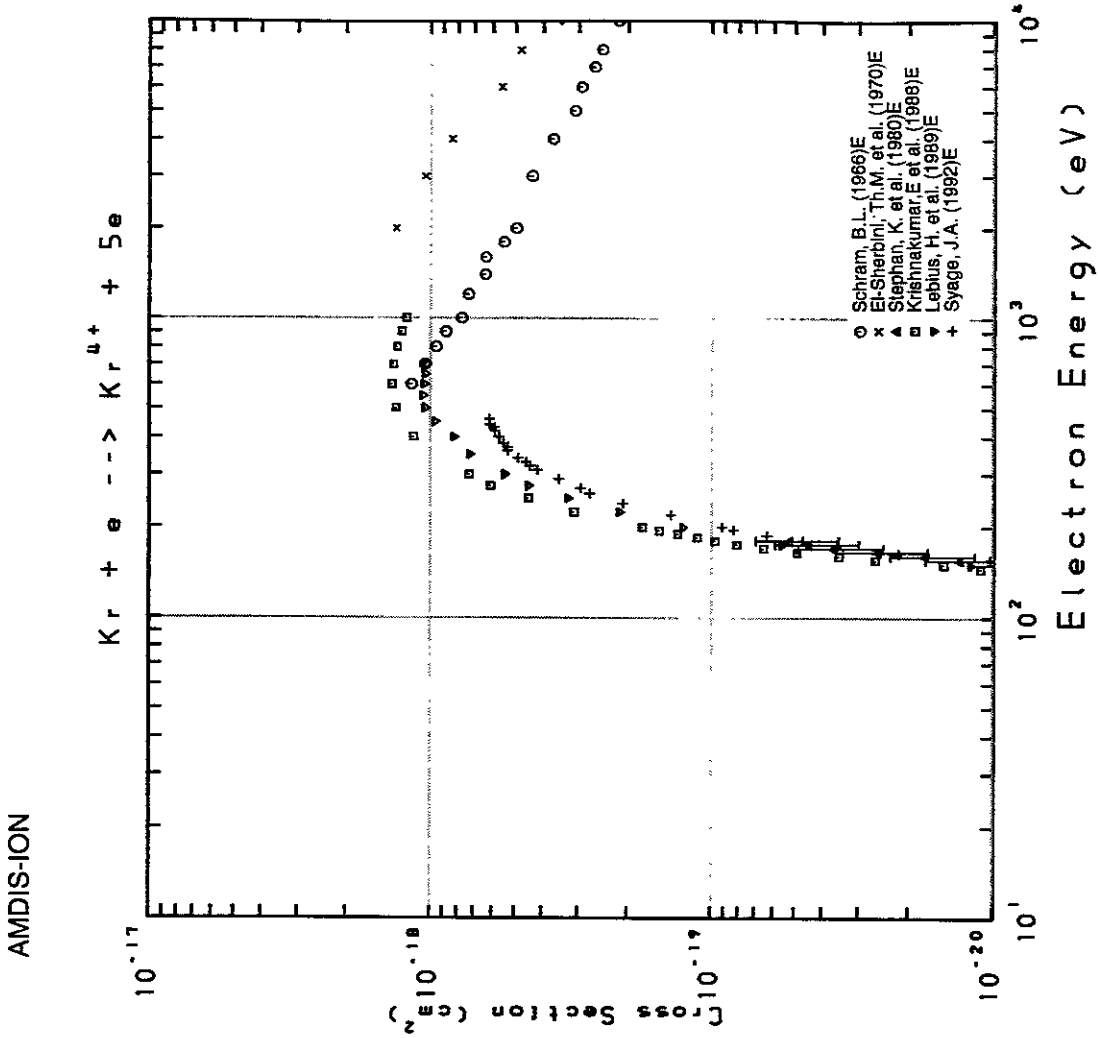

Fig. 274 $Kr \rightarrow Kr^{4+}$

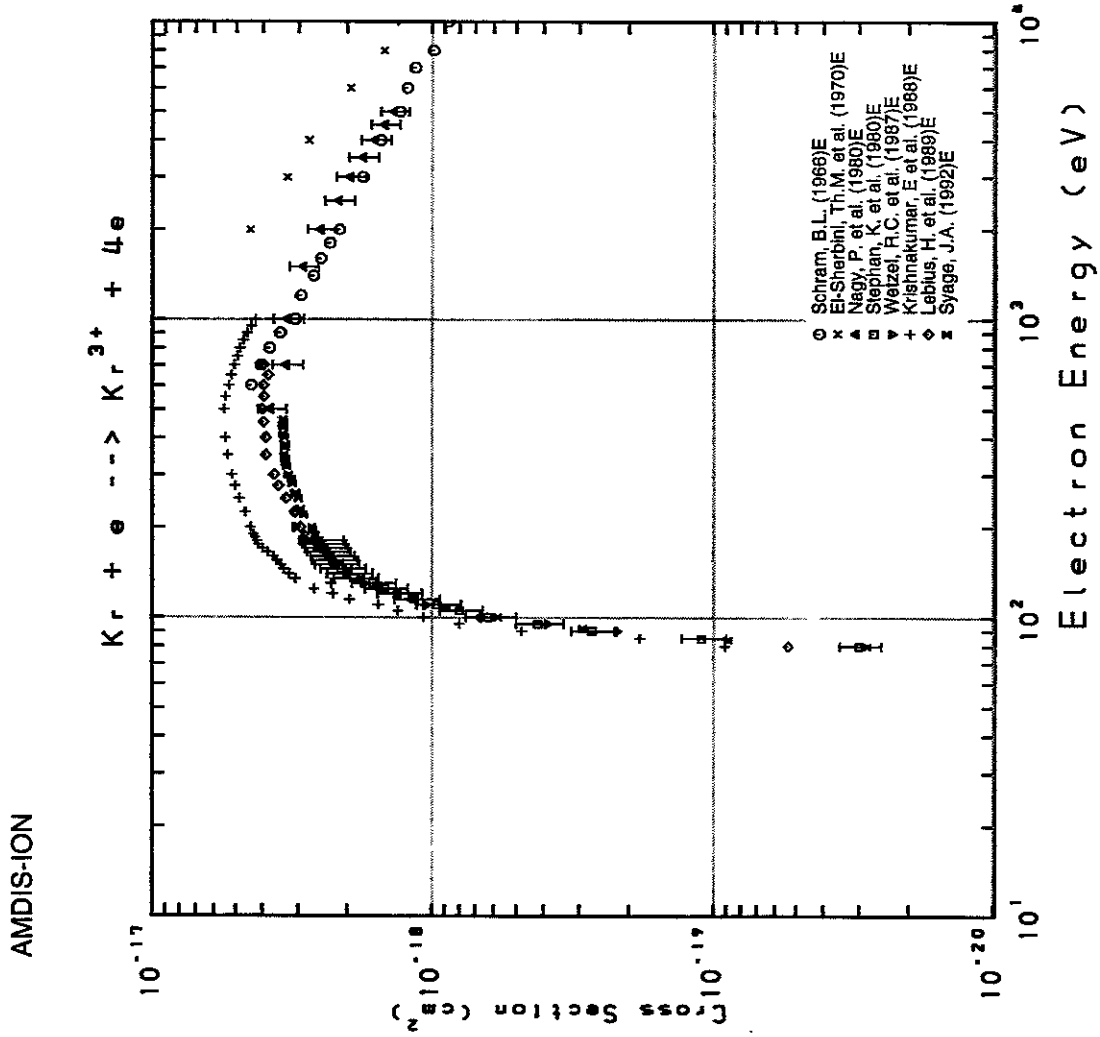

Fig. 273 $Kr \rightarrow Kr^{3+}$

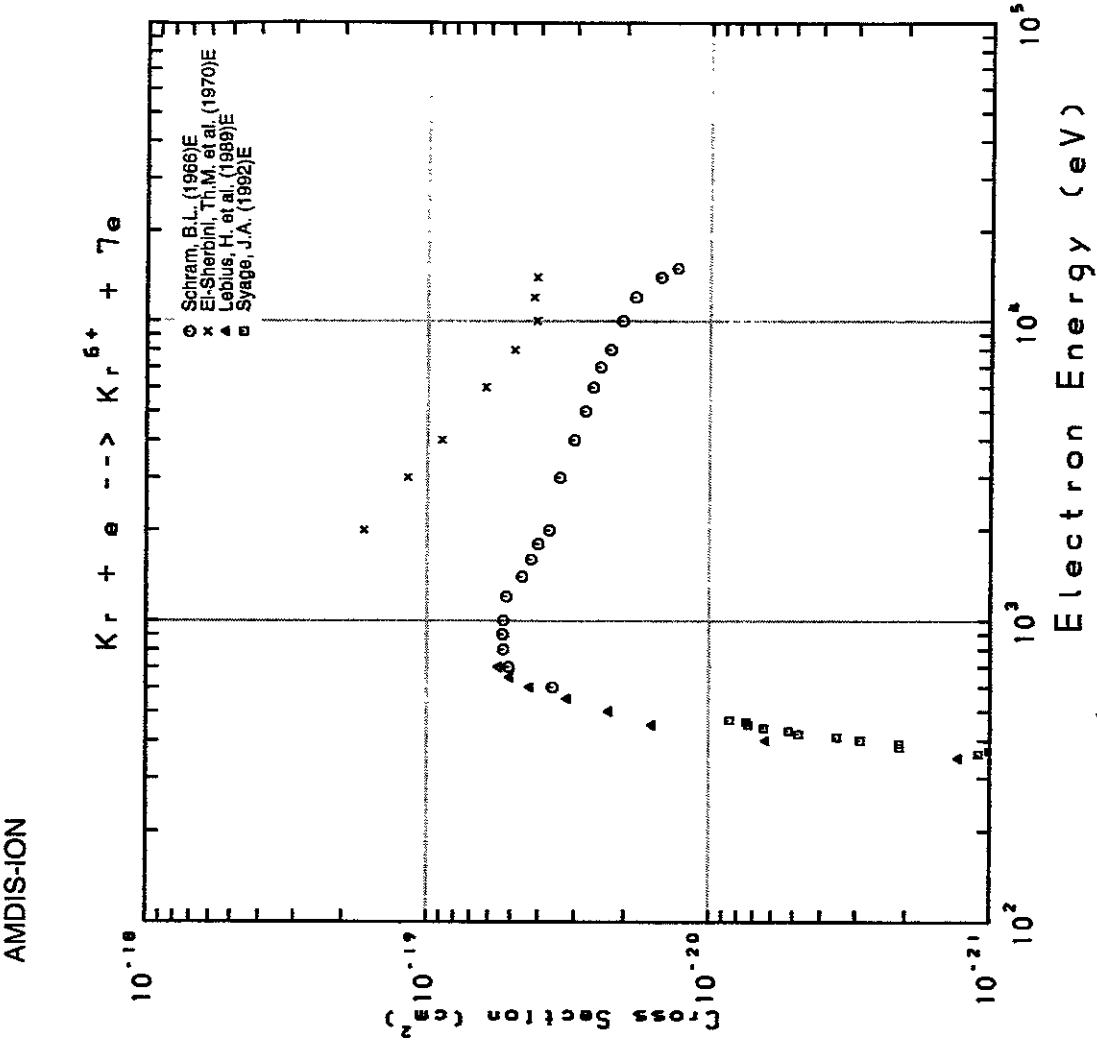

Fig. 276 Kr → Kr^{6+}

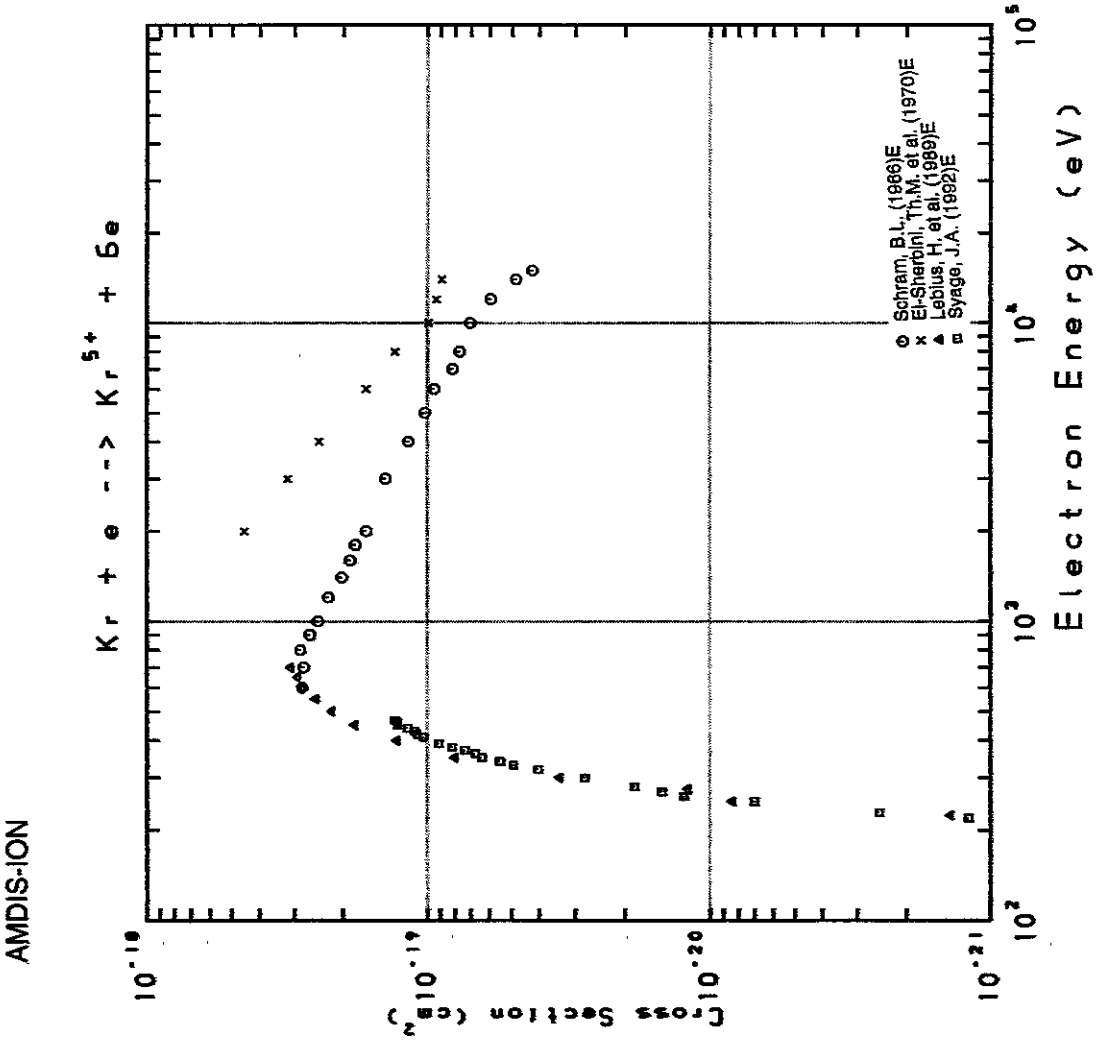

Fig. 275 Kr → Kr^{5+}

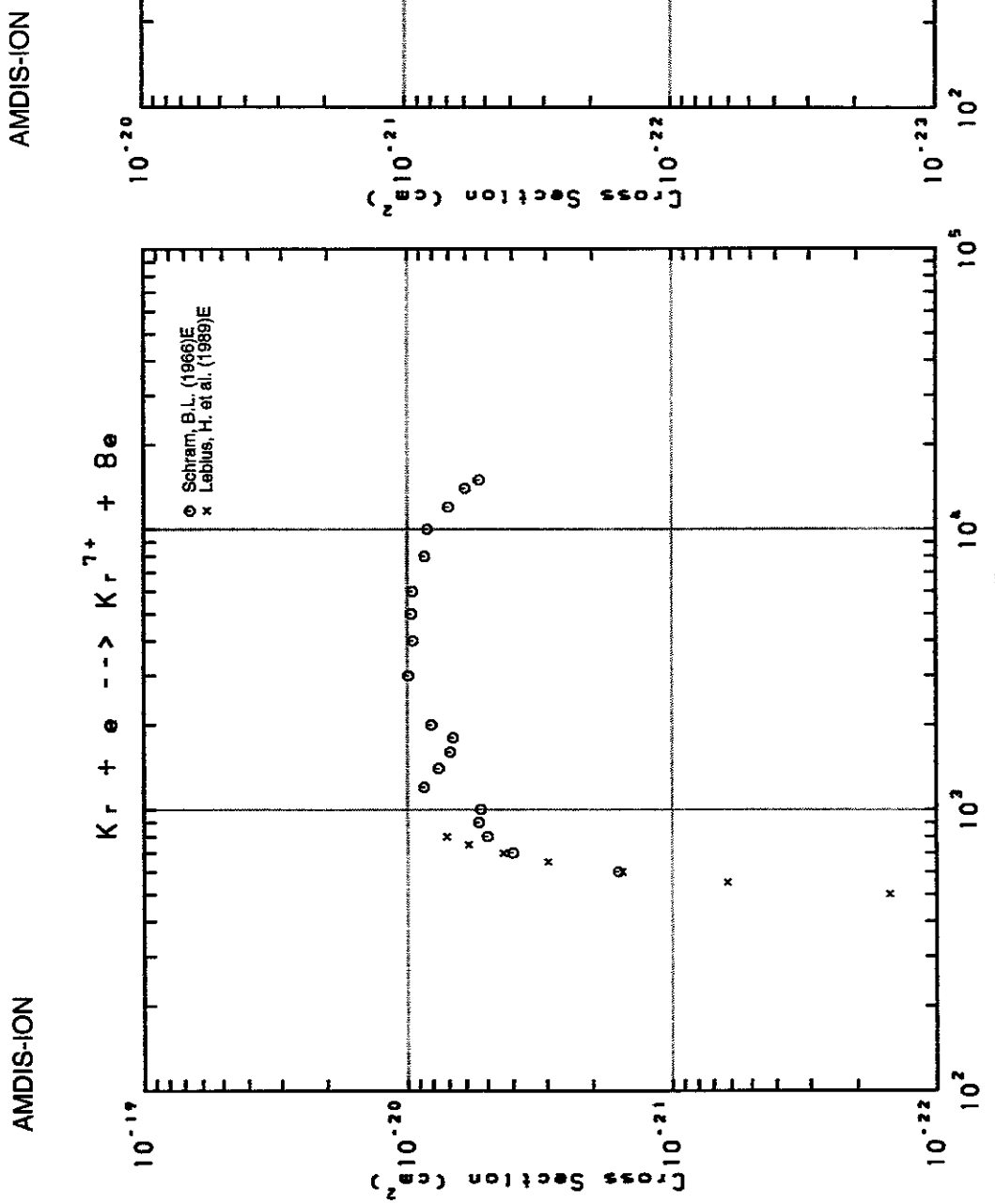

Fig. 277 $Kr \rightarrow Kr^{7+}$

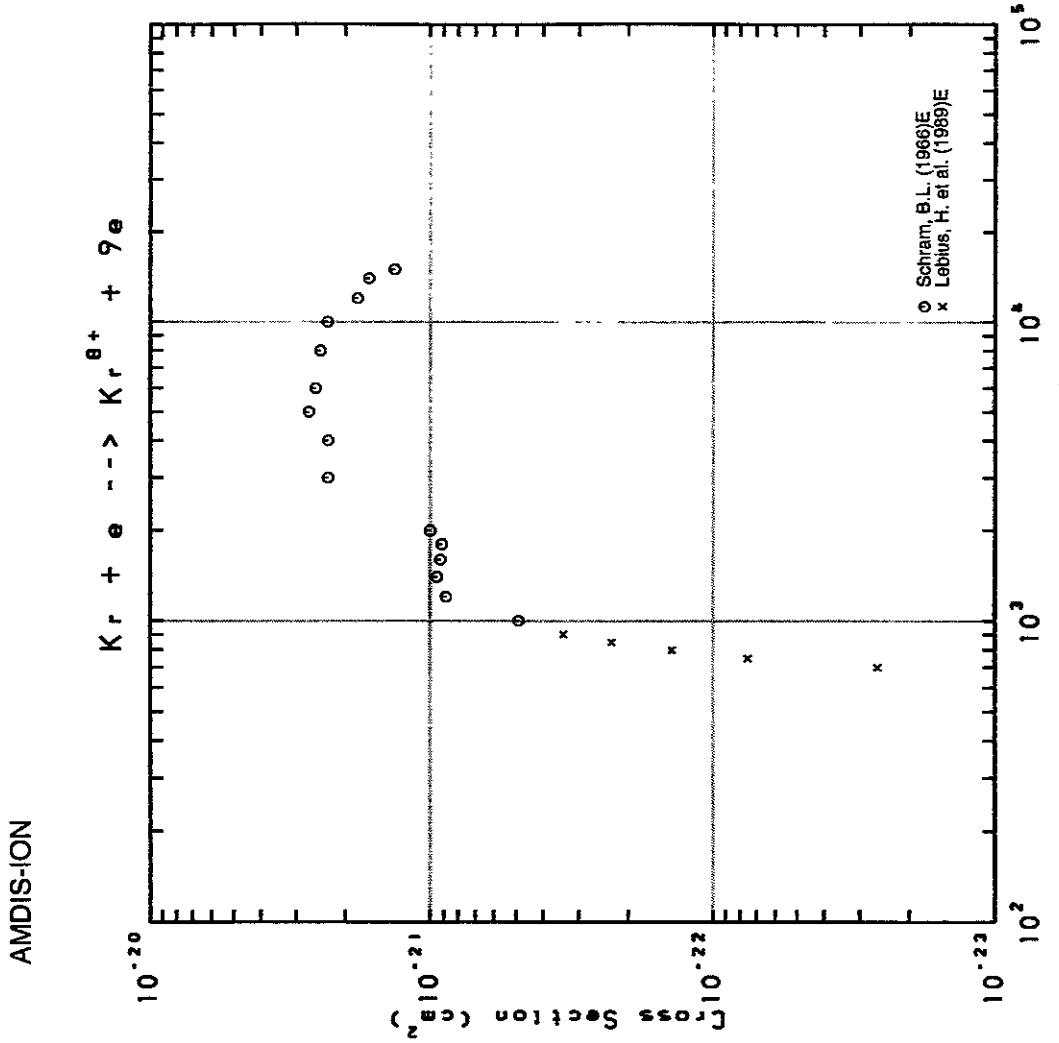

Fig. 278 $Kr \rightarrow Kr^{8+}$

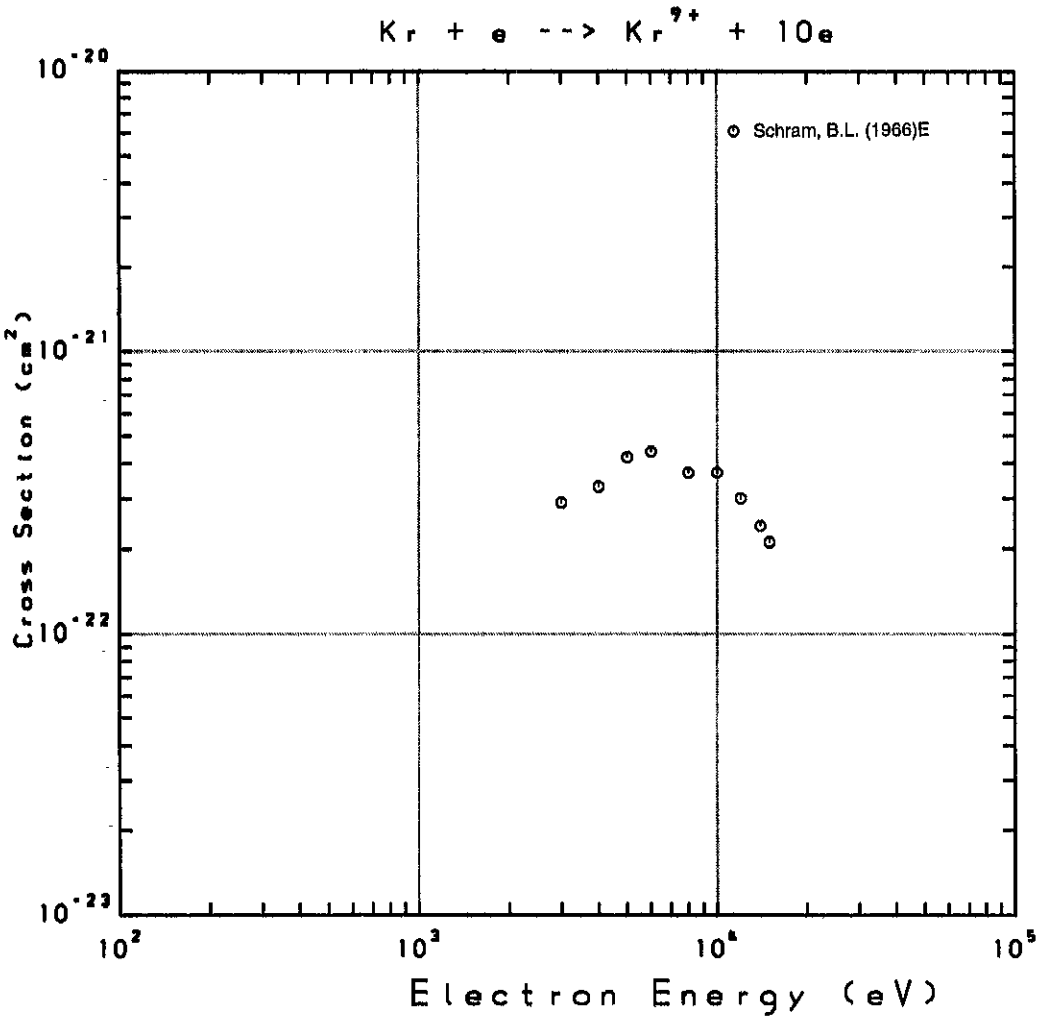

Fig. 279 Kr → Kr^{9+}

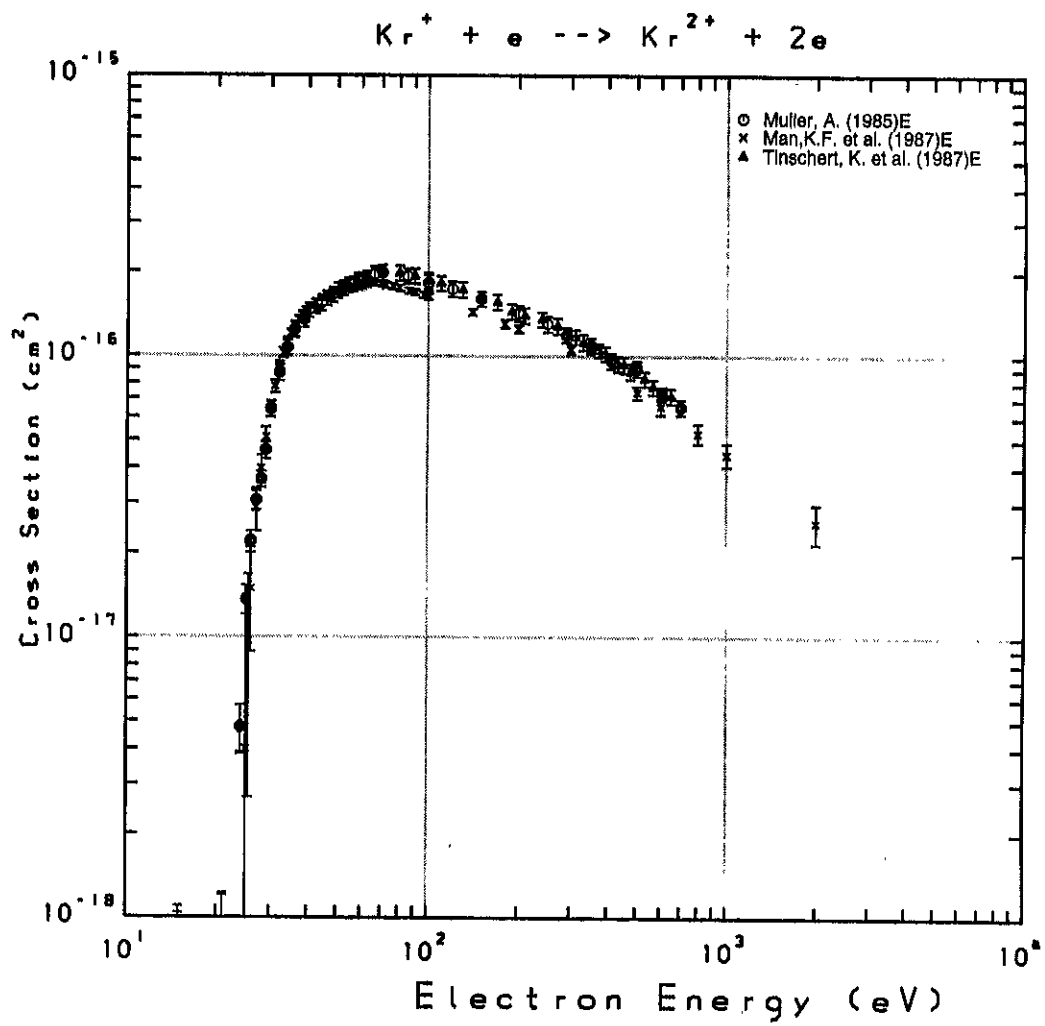

Fig. 280 Kr^{+} → Kr^{2+}

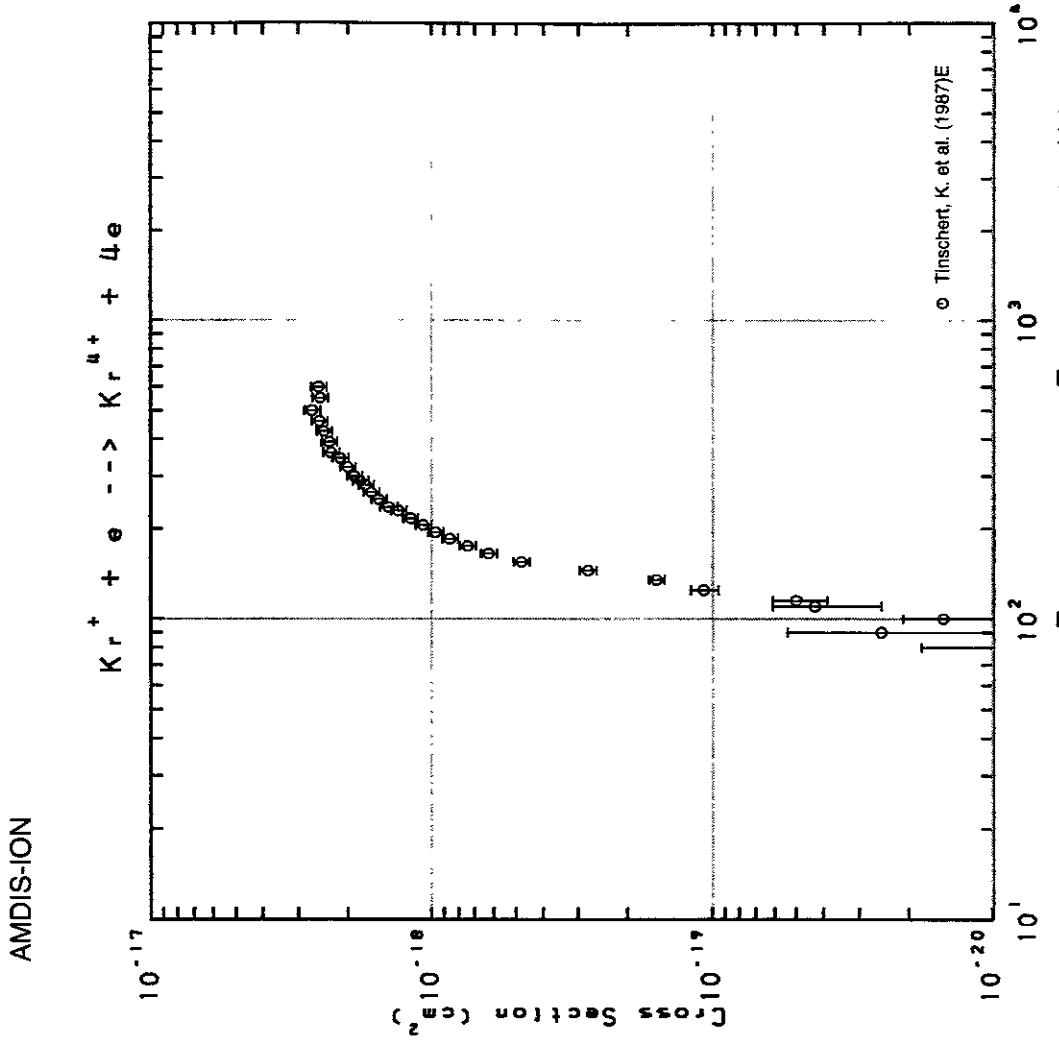

Fig. 282 $Kr^{+} \rightarrow Kr^{4+}$

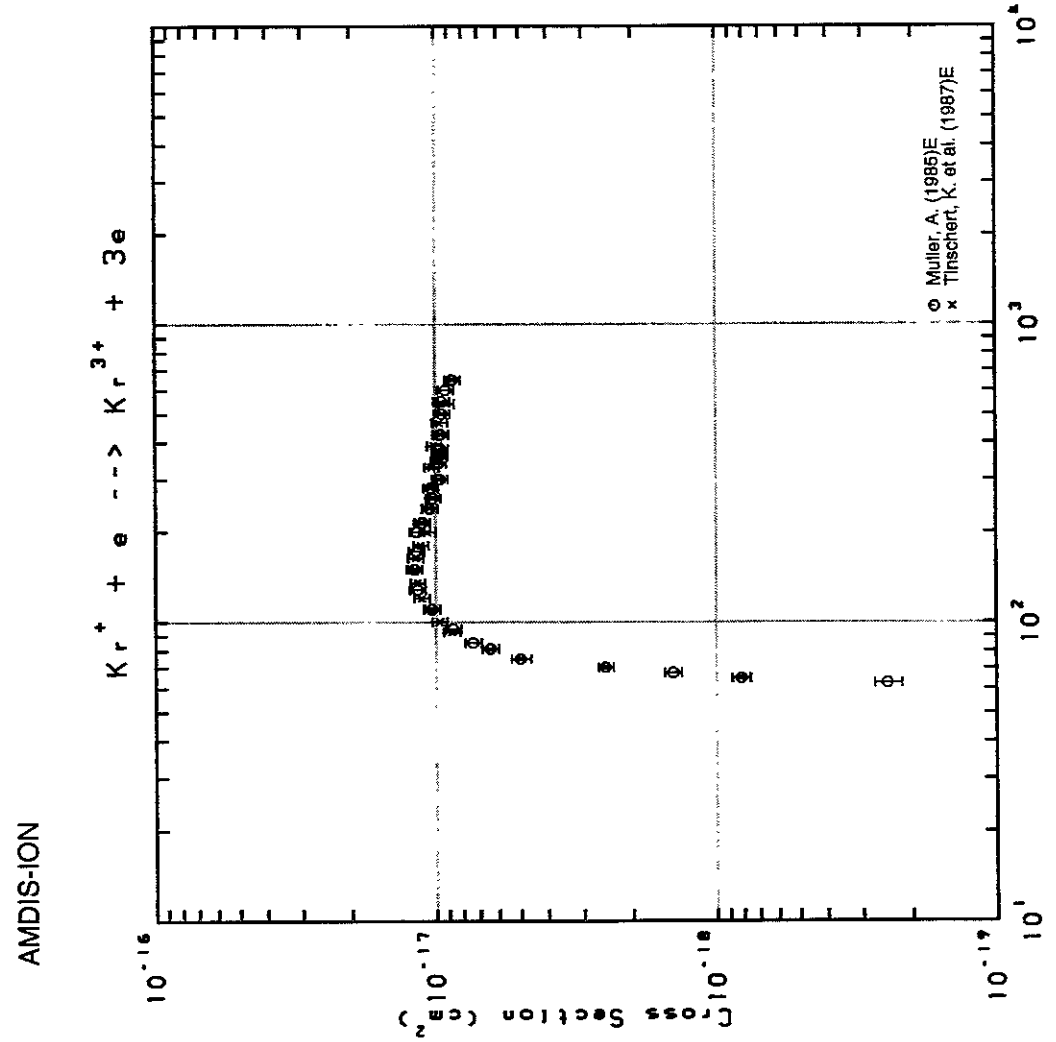

Fig. 281 $Kr^{+} \rightarrow Kr^{3+}$

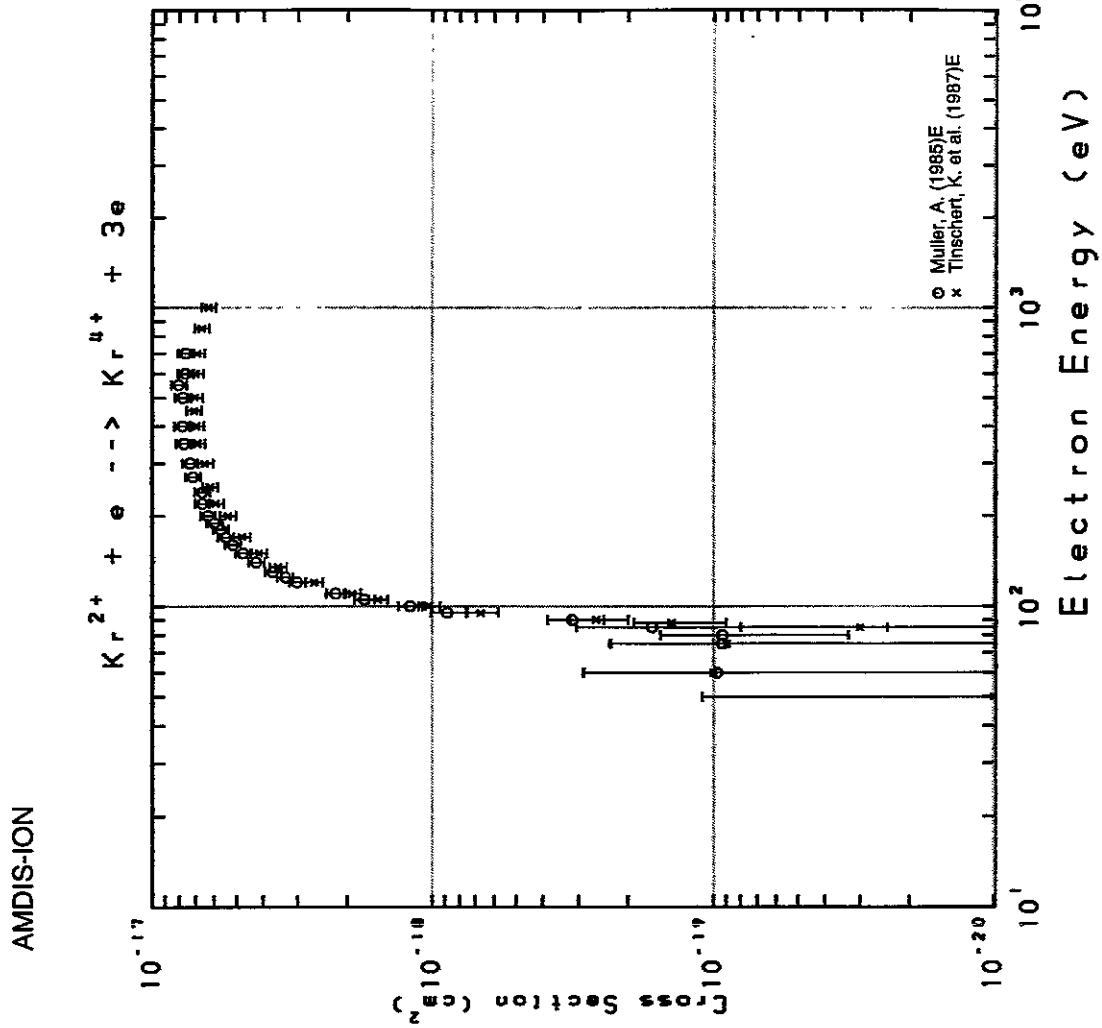

Fig. 284 $Kr^{2+} \rightarrow Kr^{4+}$

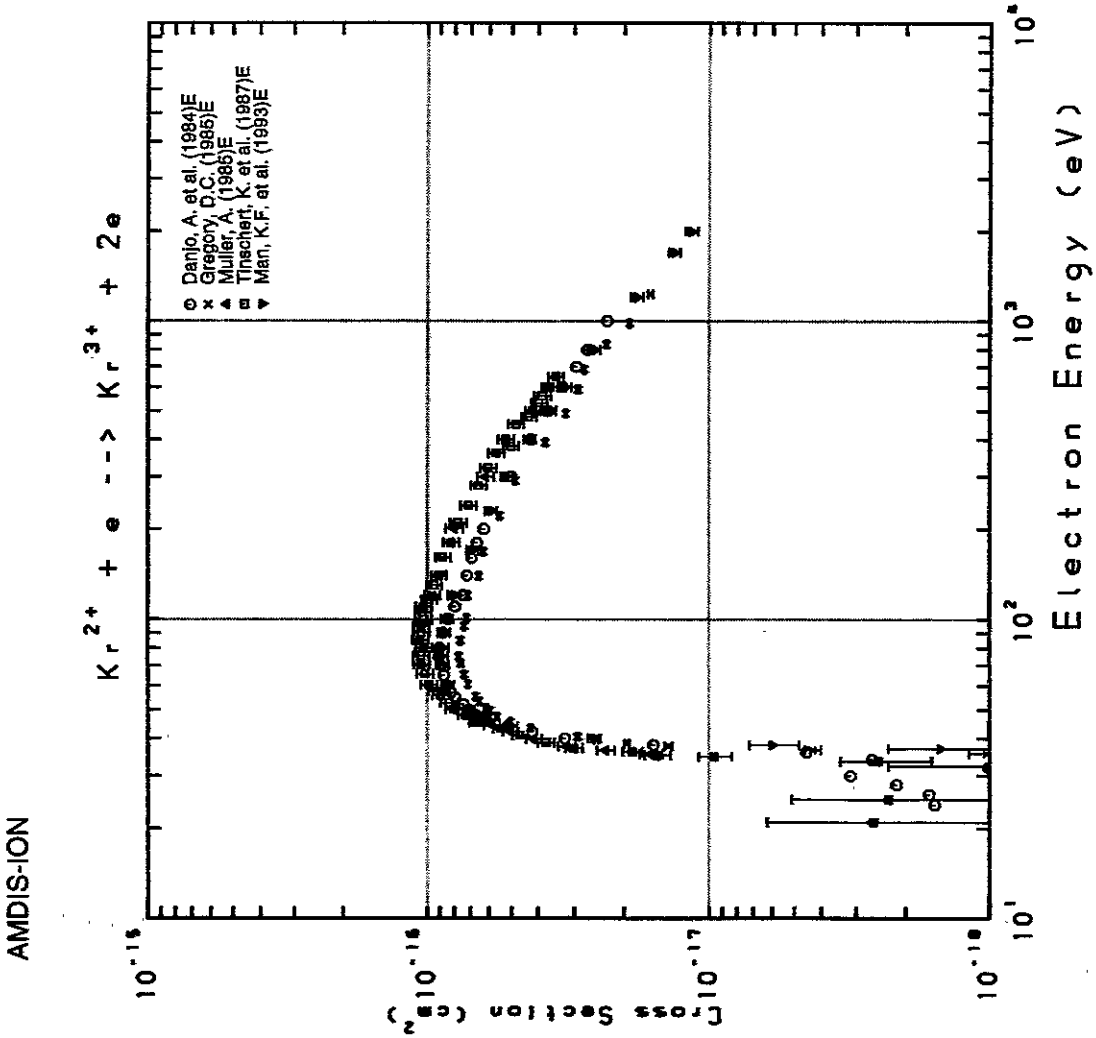

Fig. 283 $Kr^{2+} \rightarrow Kr^{3+}$

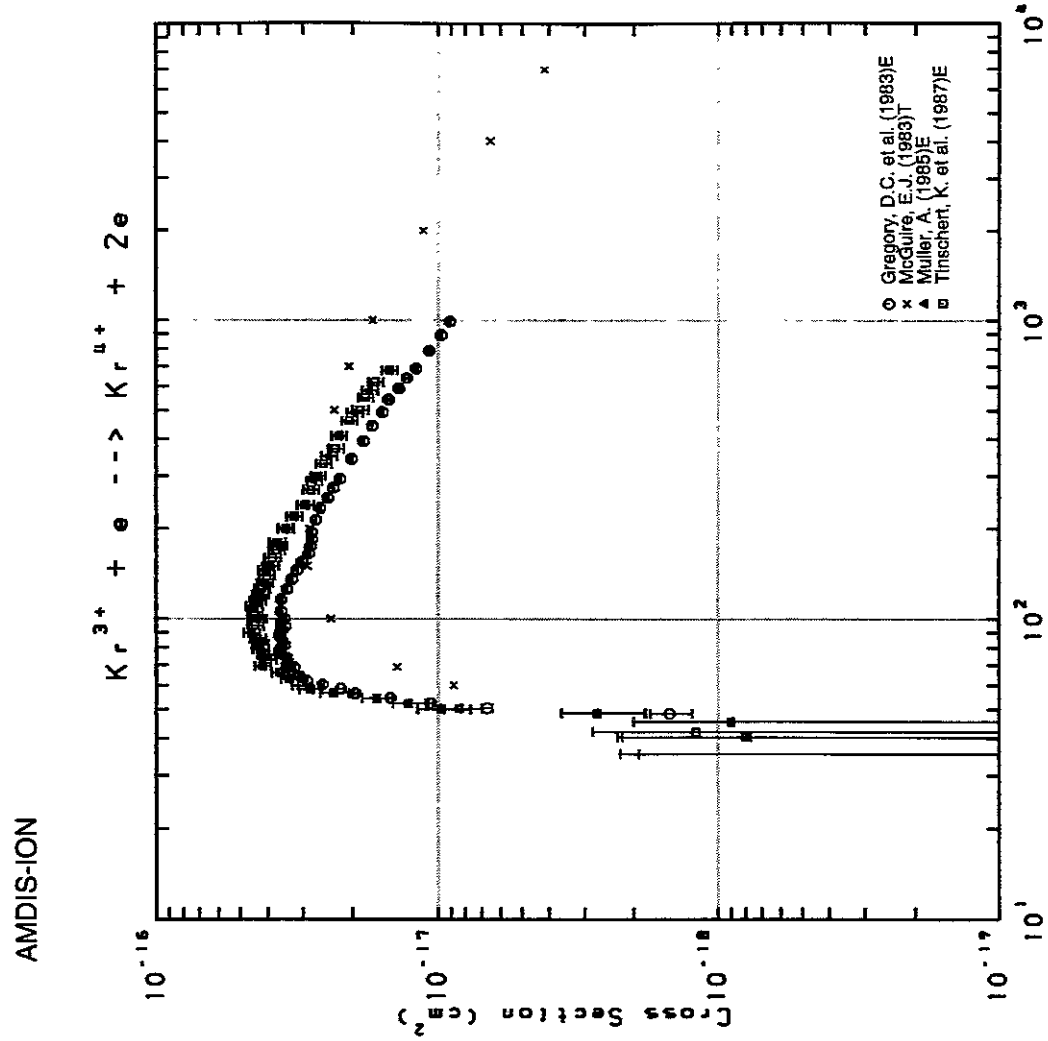

Fig. 286 $Kr^{3+} \rightarrow Kr^{4+}$

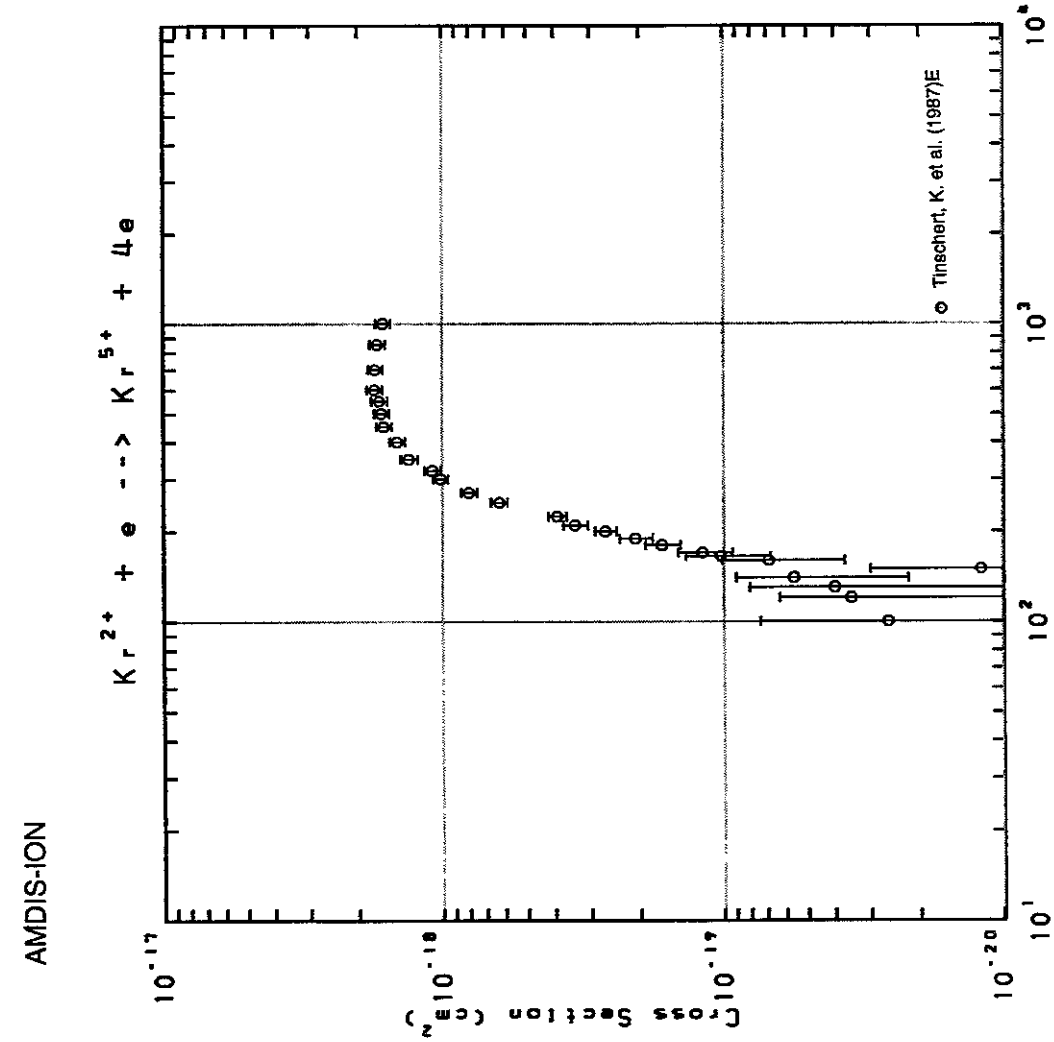

Fig. 285 $Kr^{2+} \rightarrow Kr^{5+}$

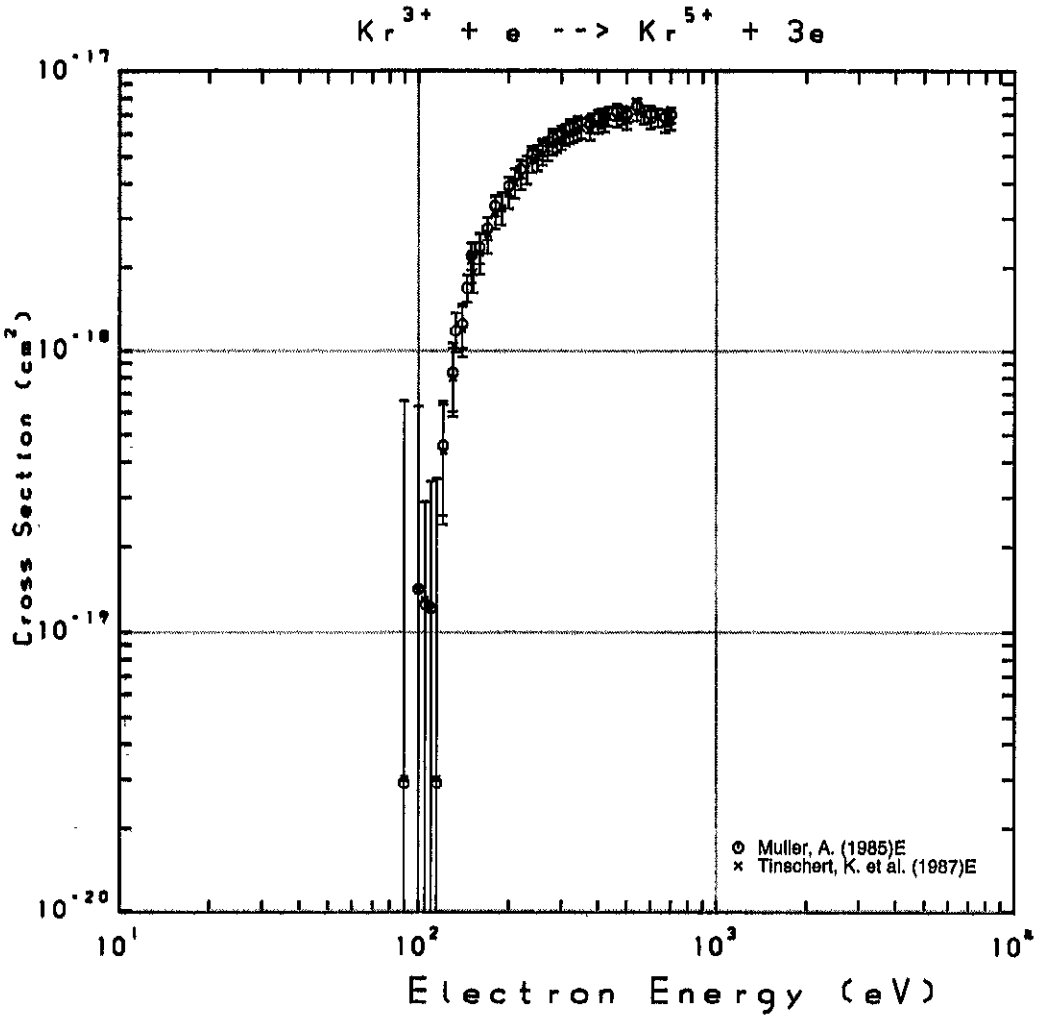

Fig. 287 $Kr^{3+} \rightarrow Kr^{5+}$

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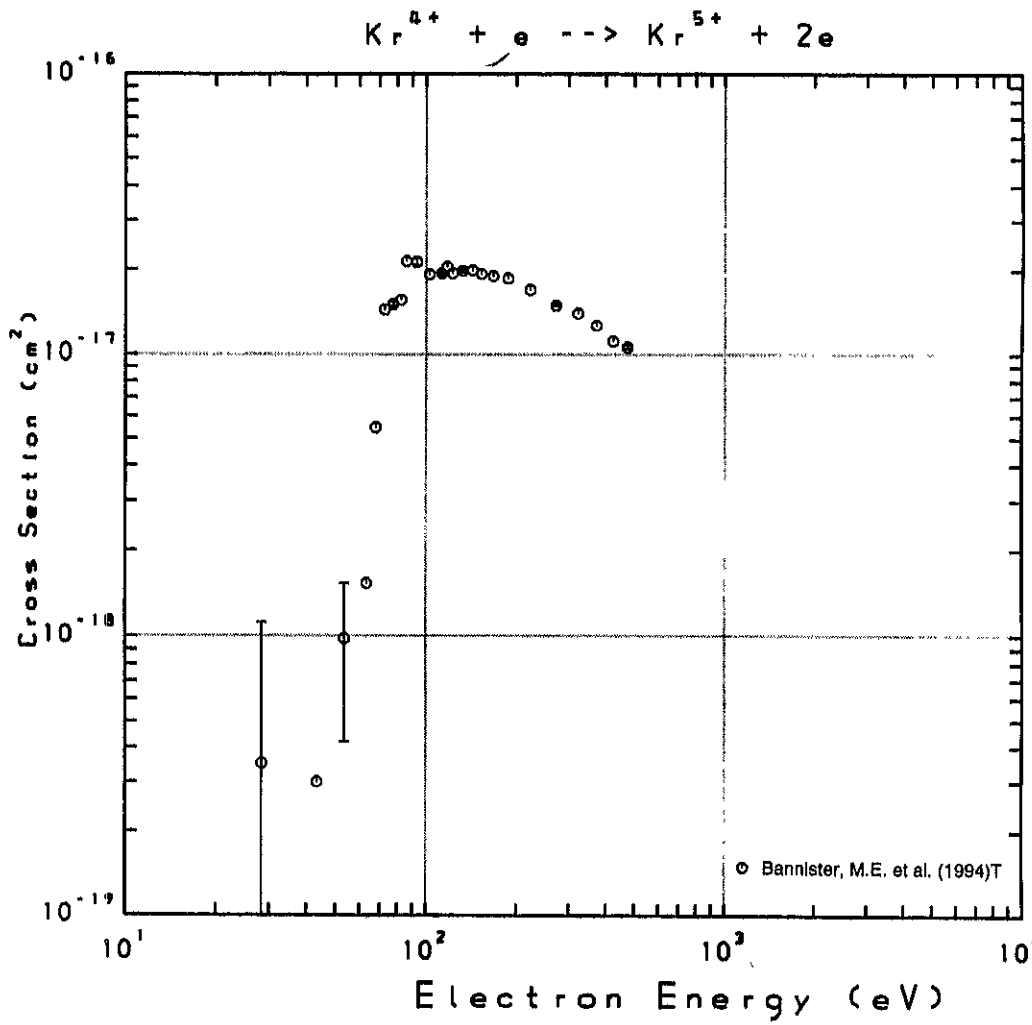

Fig. 288 $Kr^{4+} \rightarrow Kr^{5+}$

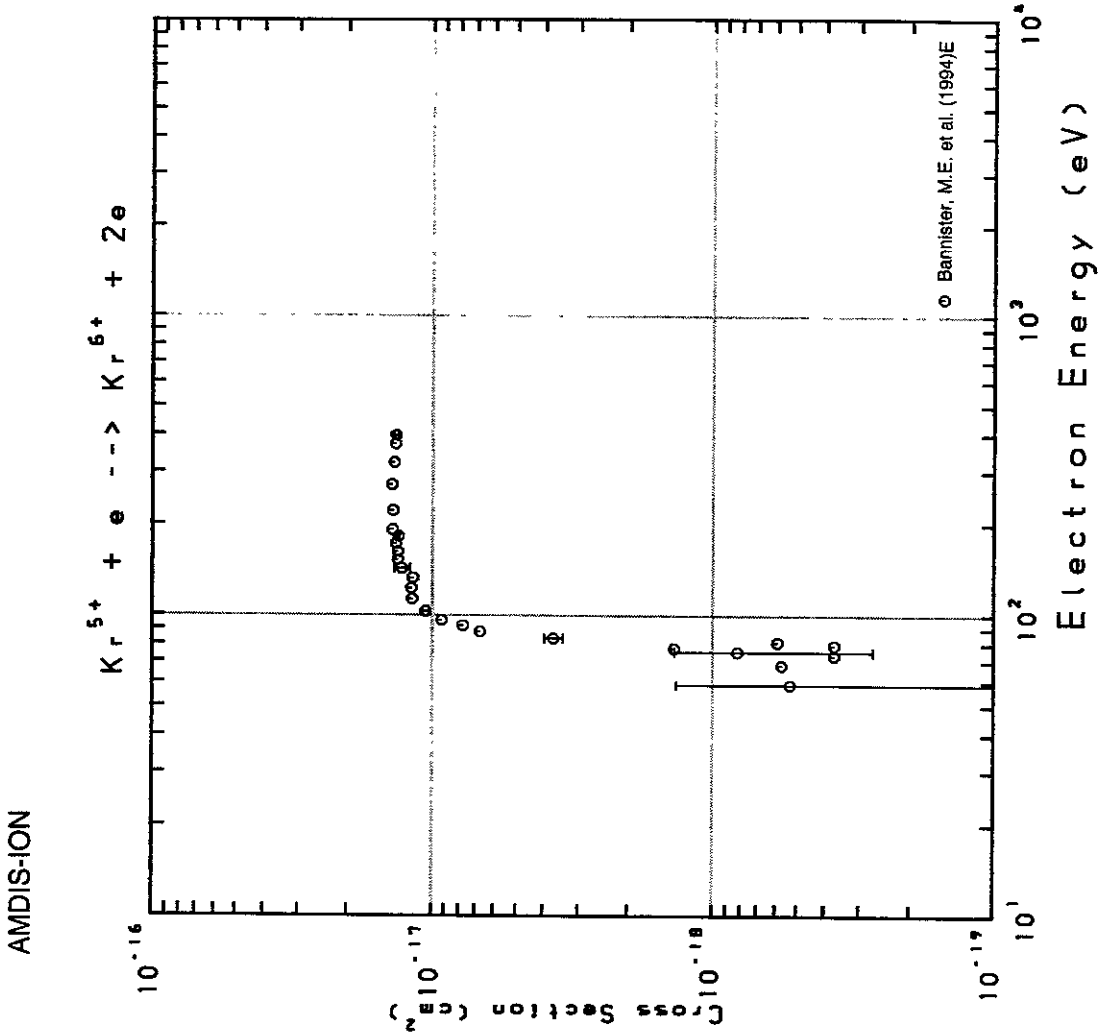

Fig. 290 $Kr^{5+} \rightarrow Kr^{6+}$

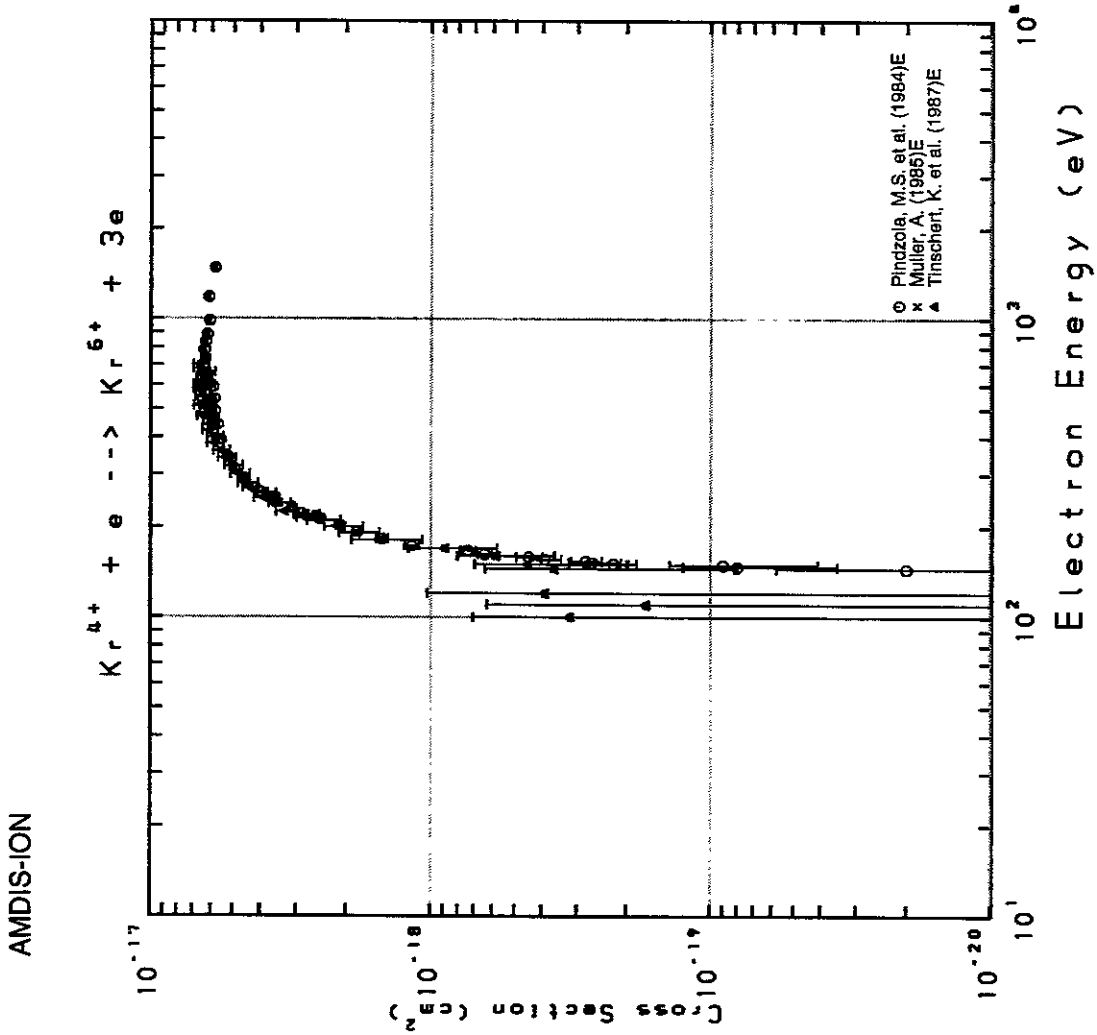

Fig. 289 $Kr^{4+} \rightarrow Kr^{6+}$

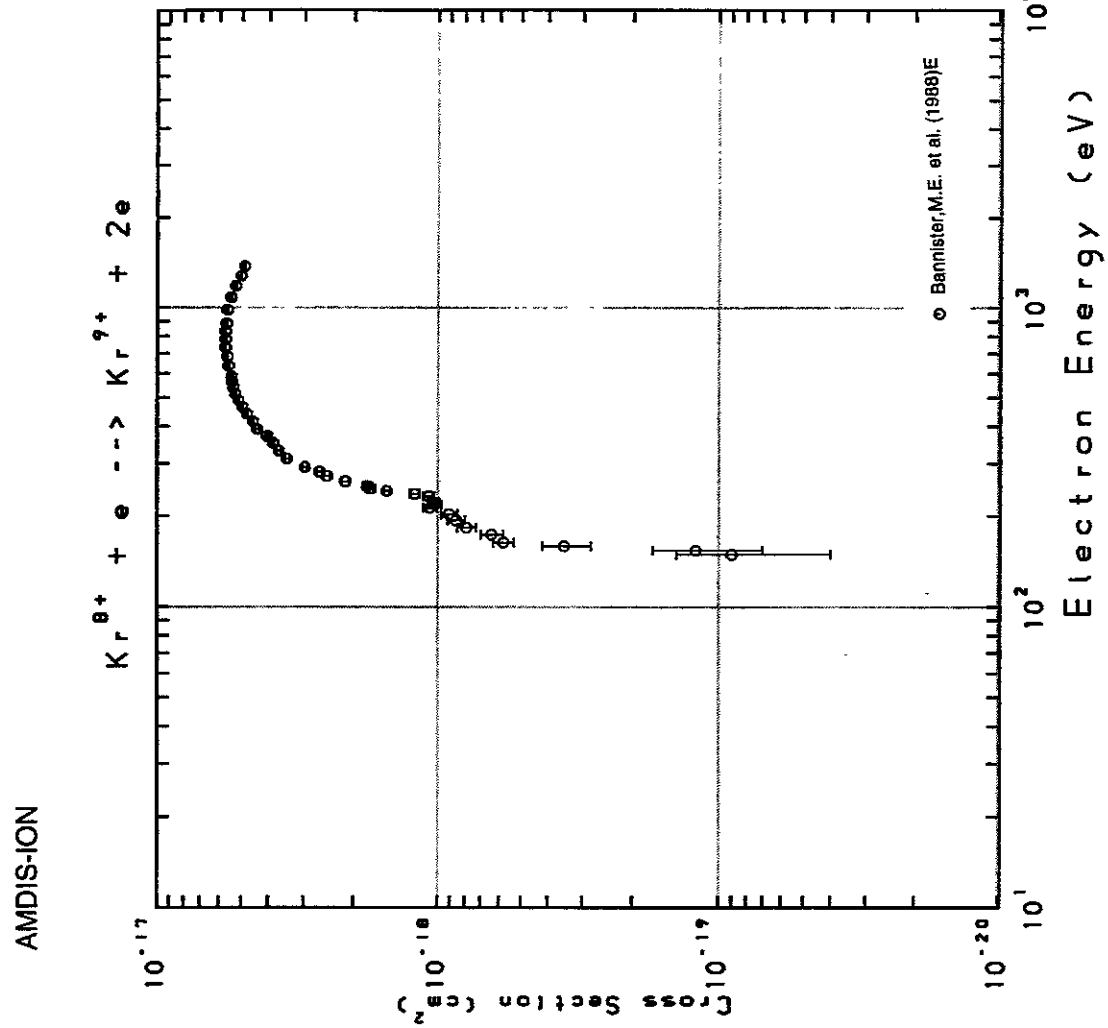

Fig. 292 $Kr^{8+} \rightarrow Kr^{9+}$

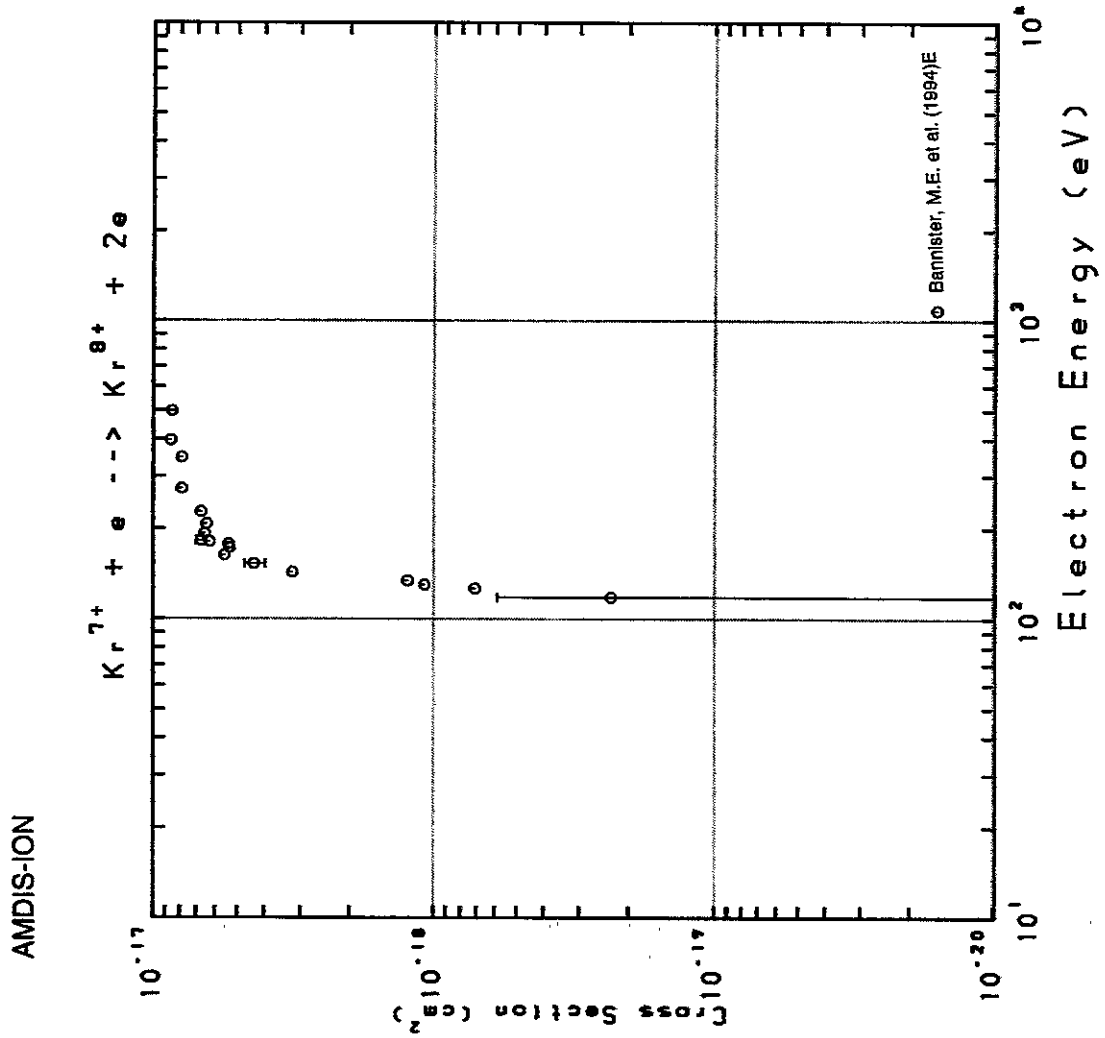

Fig. 291 $Kr^{7+} \rightarrow Kr^{8+}$

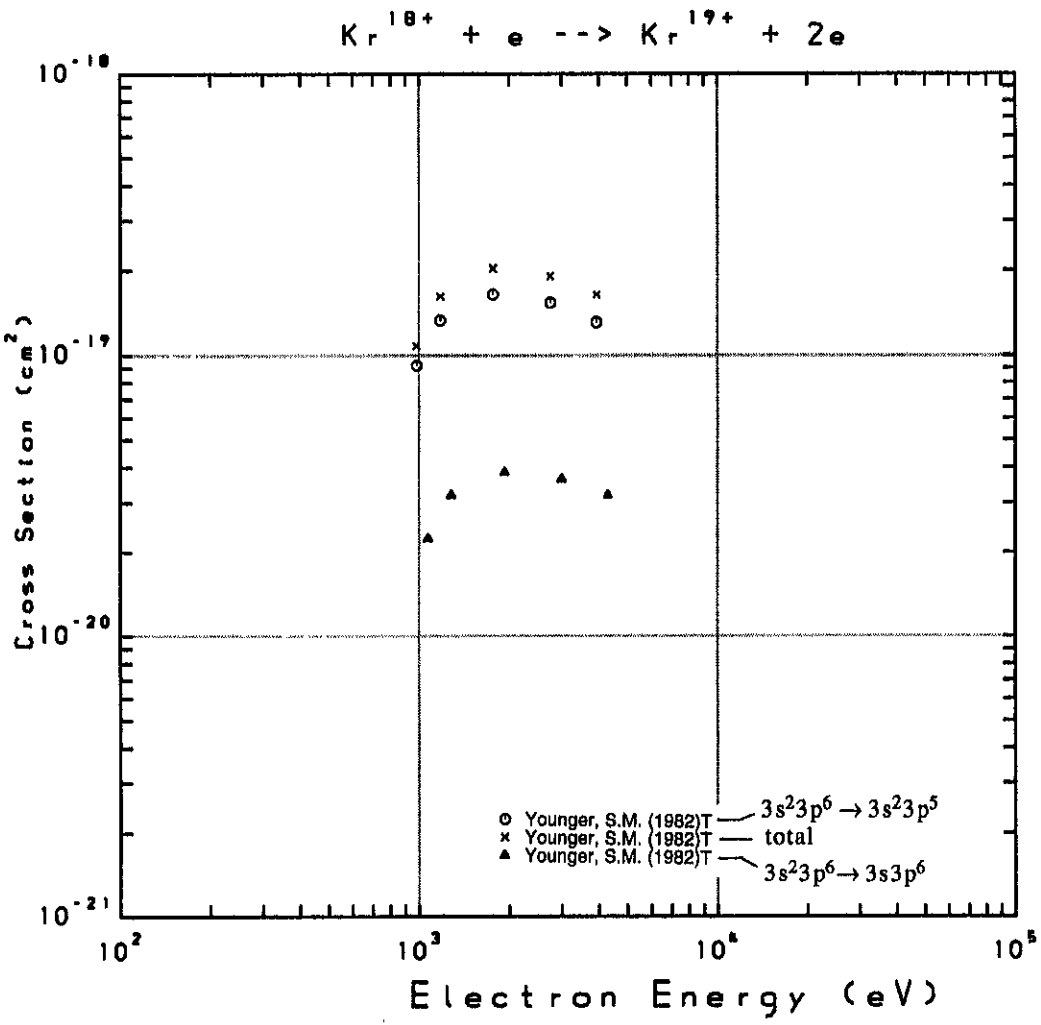

Fig. 293 $Kr^{18+} \rightarrow Kr^{19+}$

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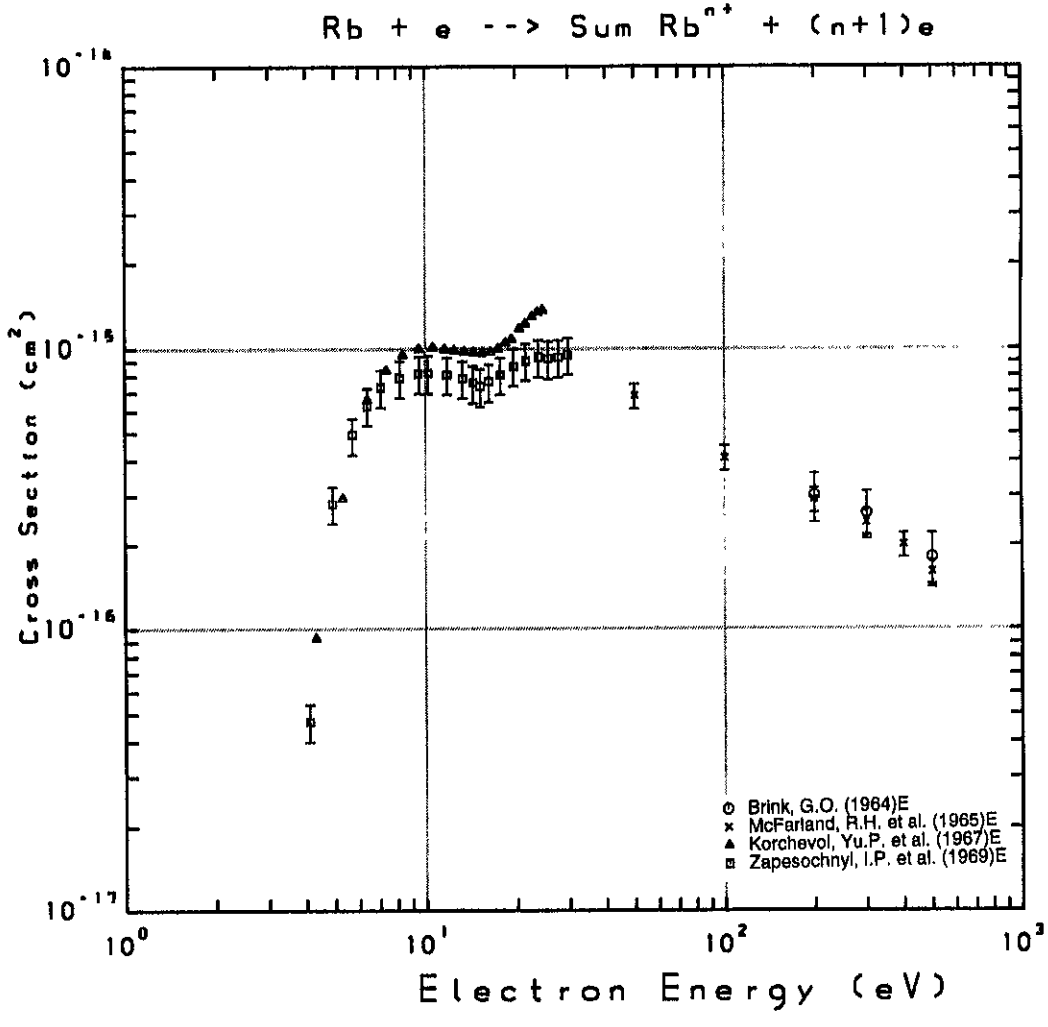

Fig. 294 $Rb \rightarrow \Sigma Rb^{n+}$

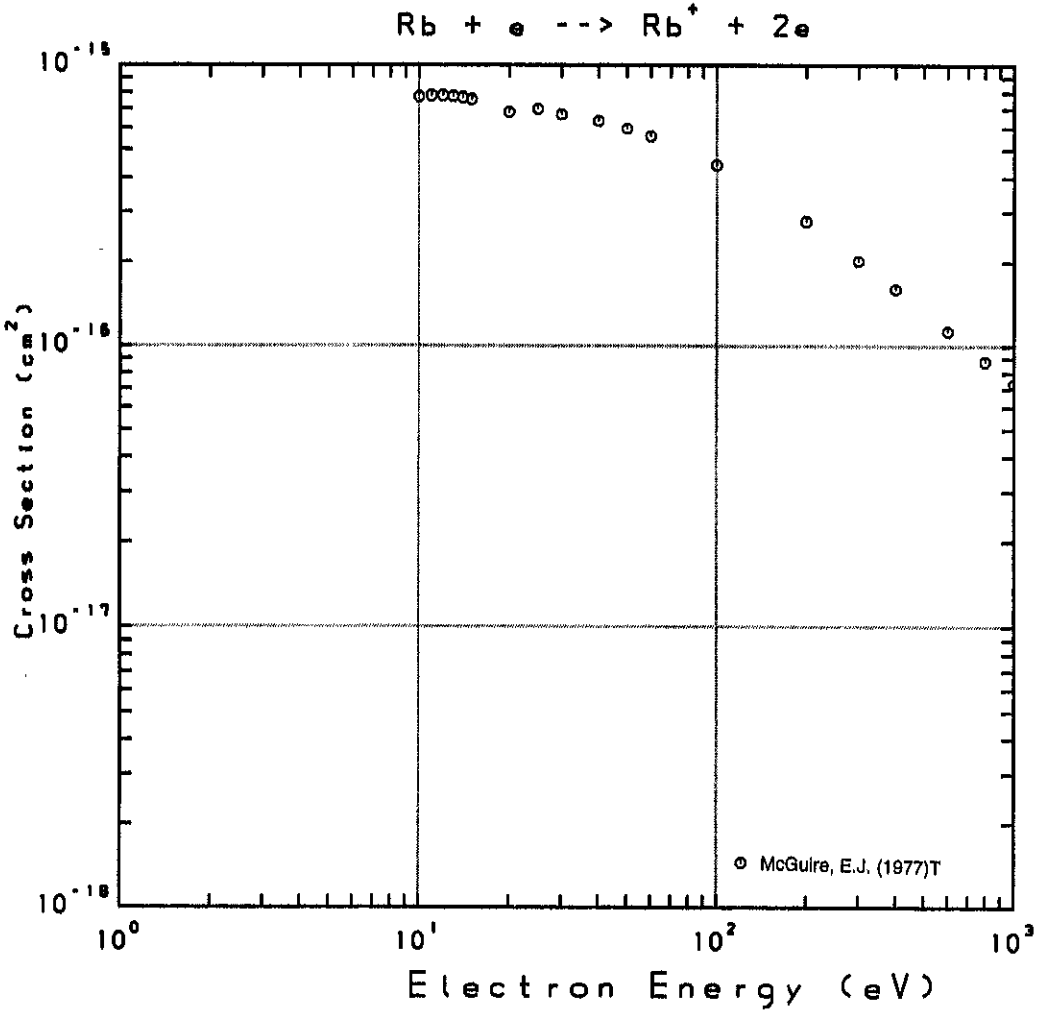

Fig. 295 Rb → Rb^+

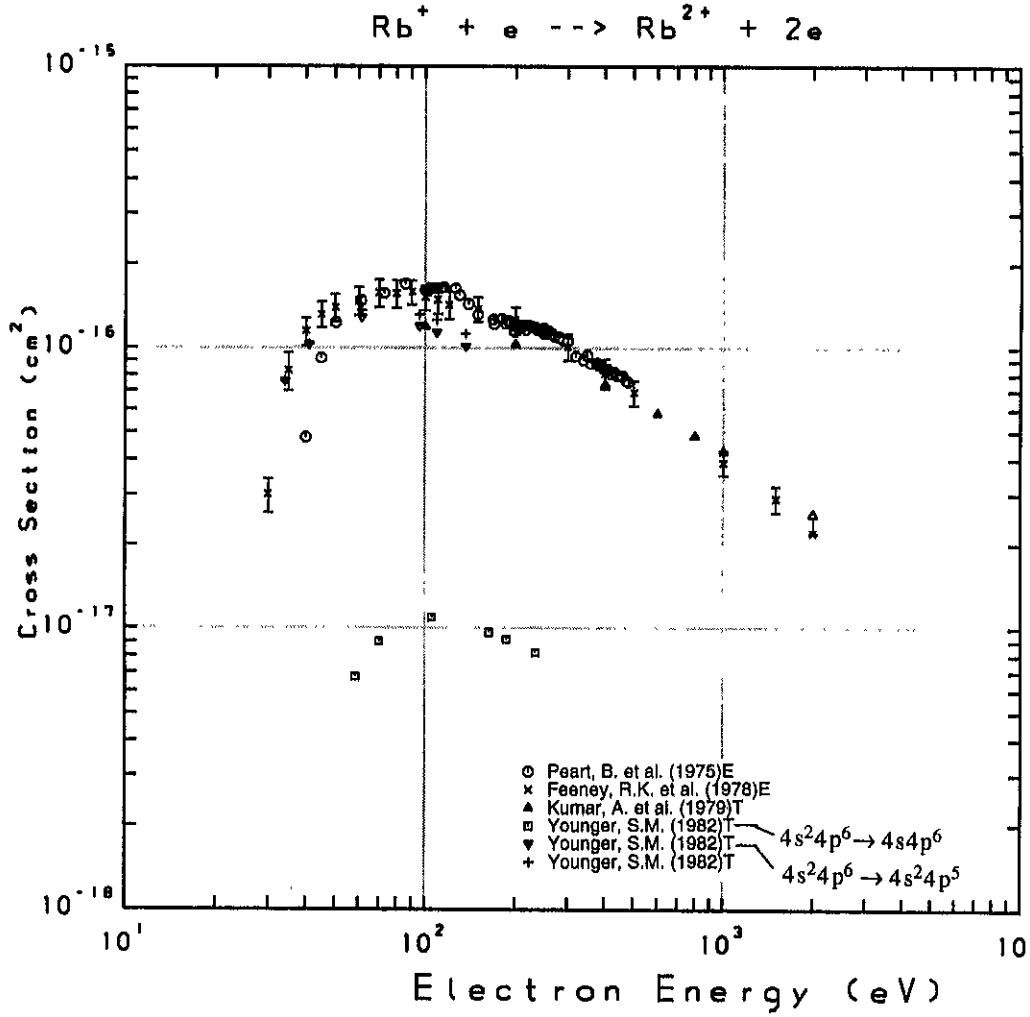

Fig. 296 Rb^+ → Rb^{2+}

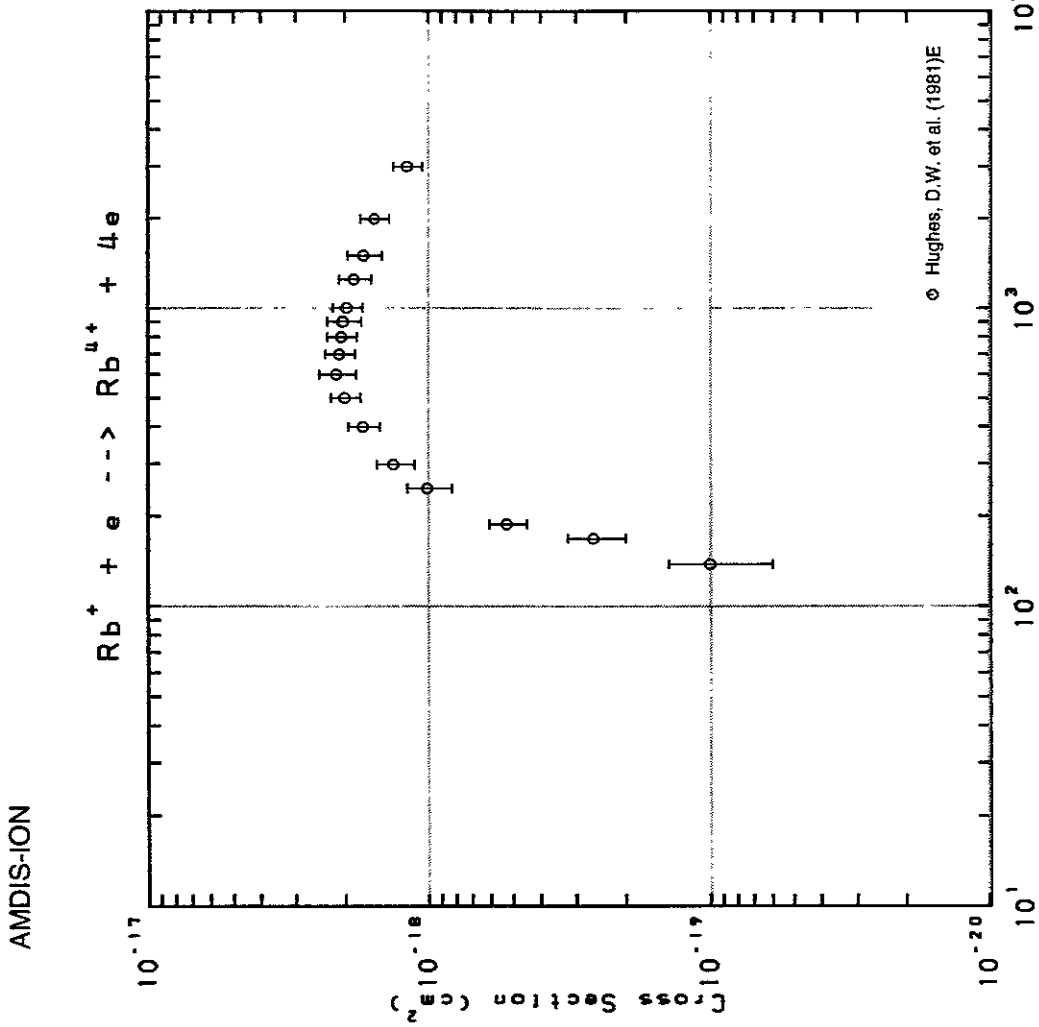

Fig. 298 $Rb^{+} \rightarrow Rb^{4+}$

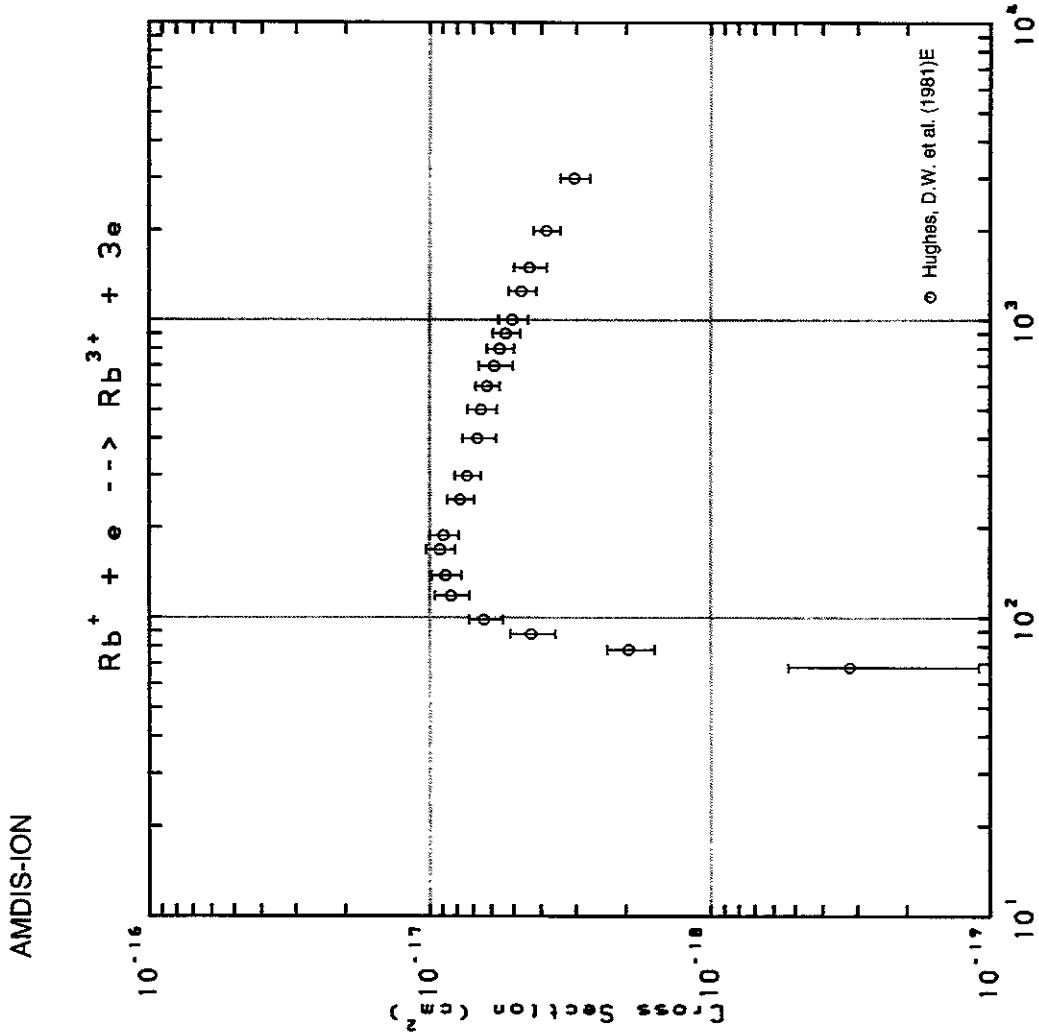

Fig. 297 $Rb^{+} \rightarrow Rb^{3+}$

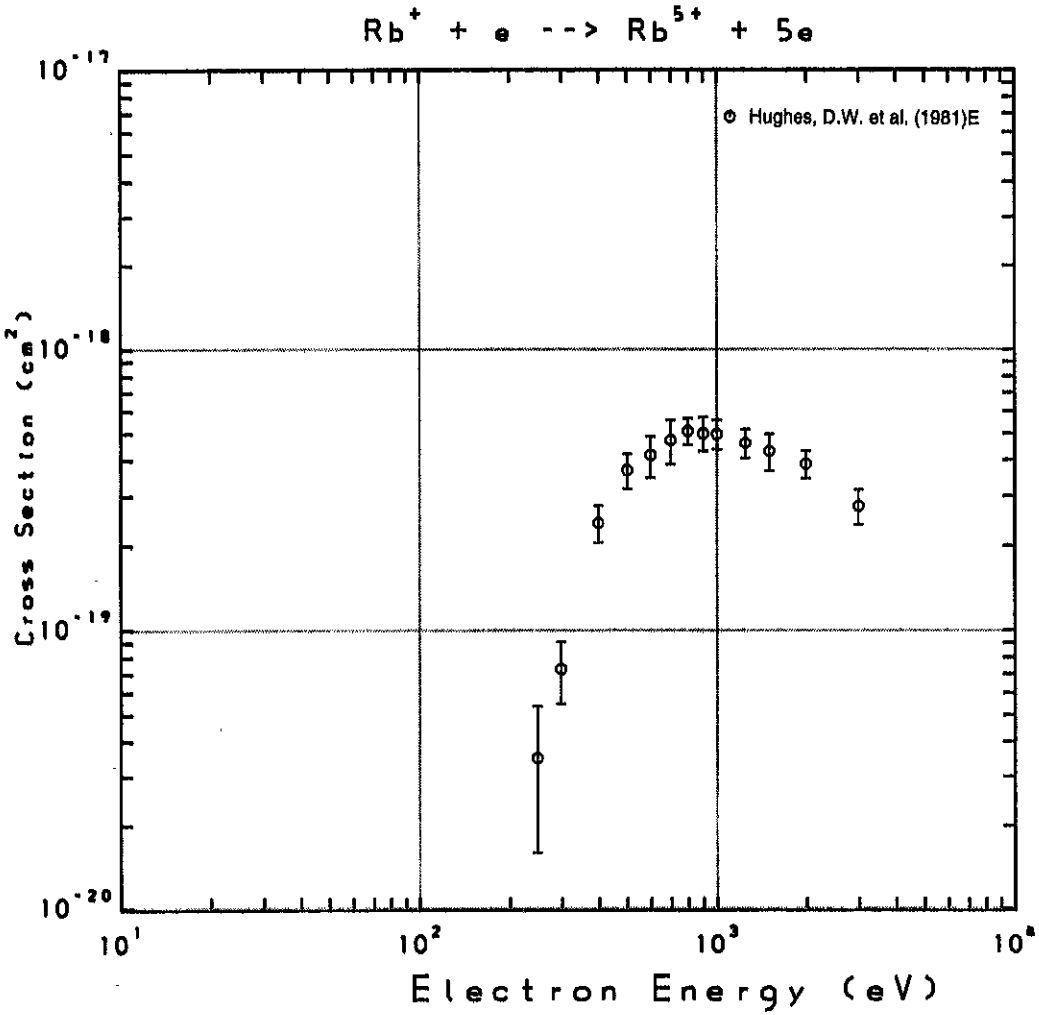

Fig. 299 $Rb^{+} \rightarrow Rb^{5+}$

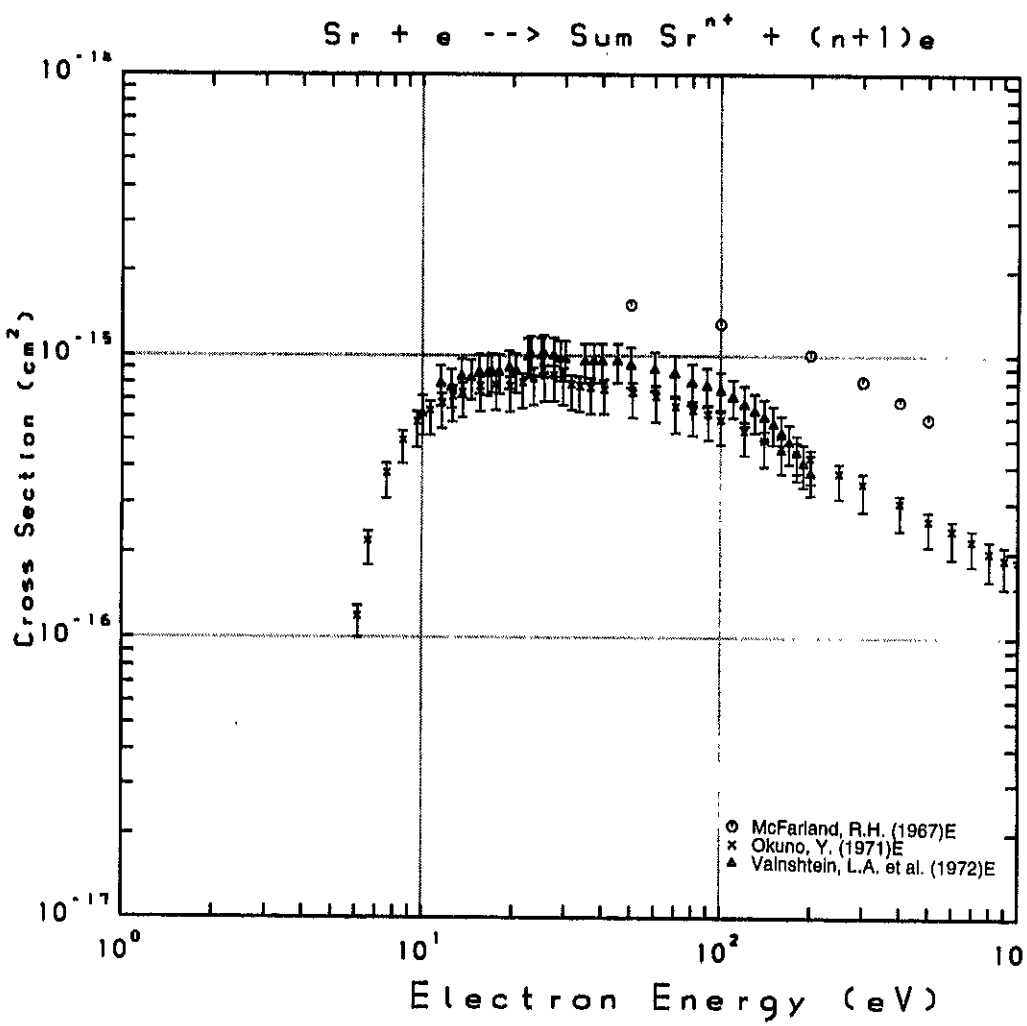

Fig. 300 $Sr \rightarrow \Sigma Sr^{n+}$

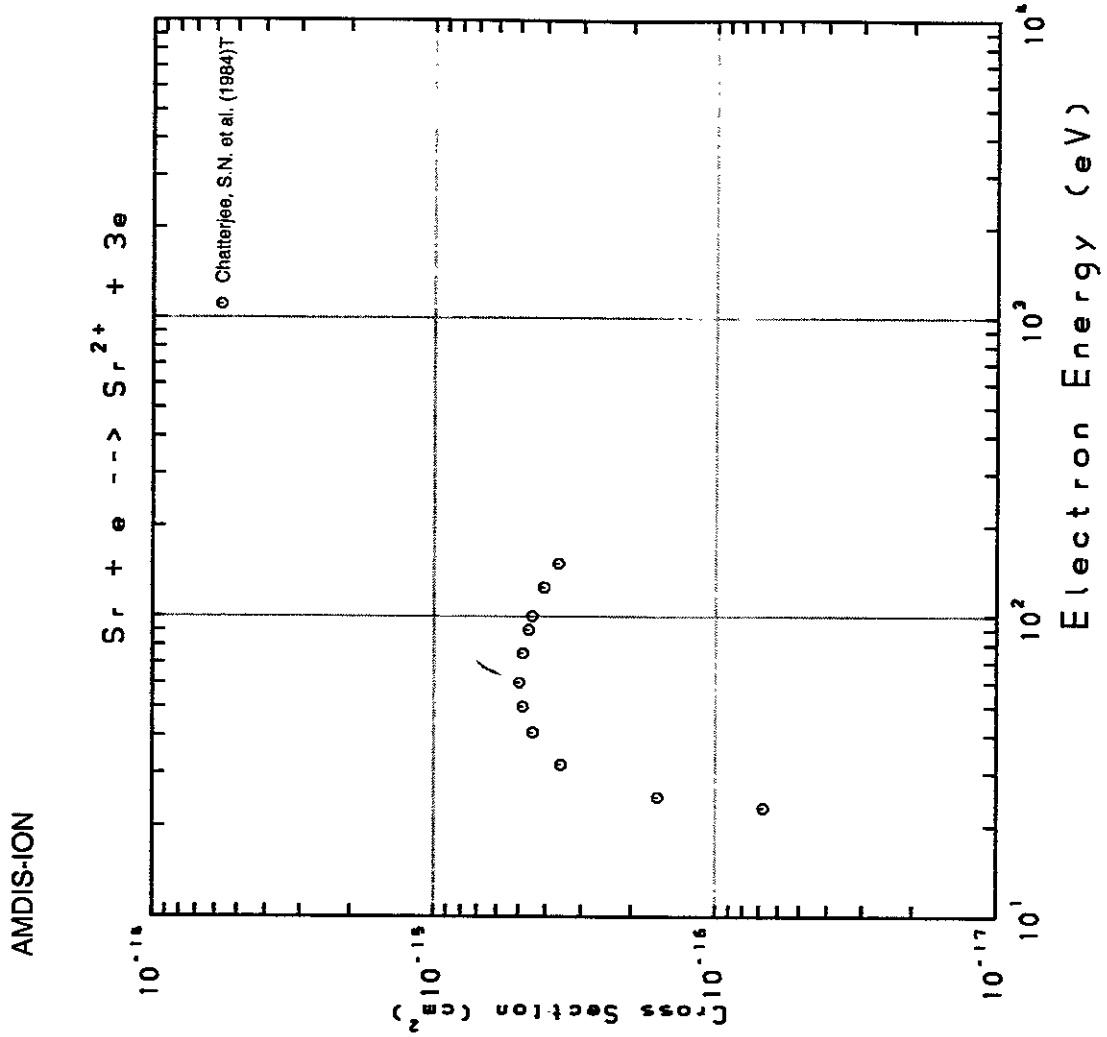

Fig. 302 Sr → Sr^{2+}

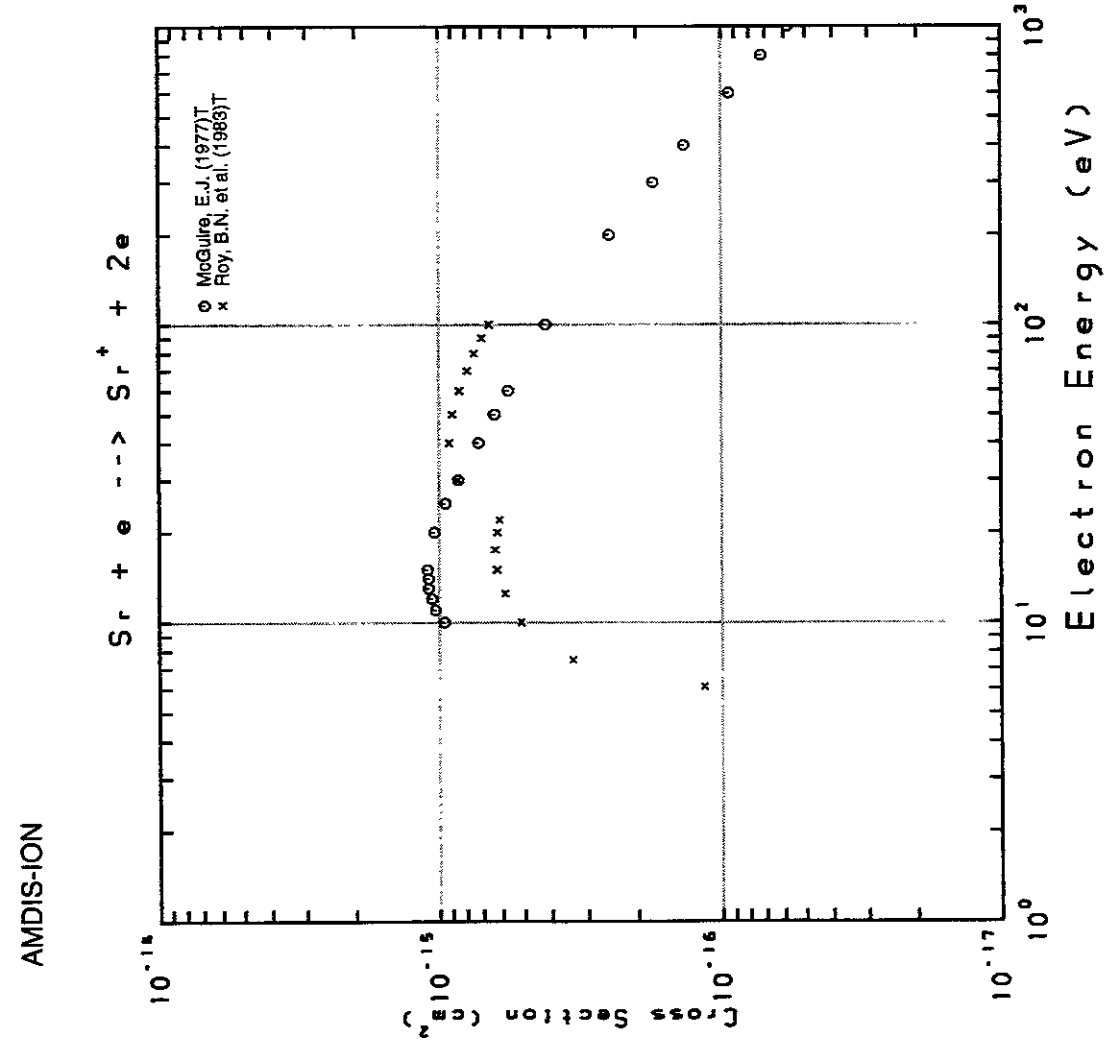

Fig. 301 Sr → Sr^{+}

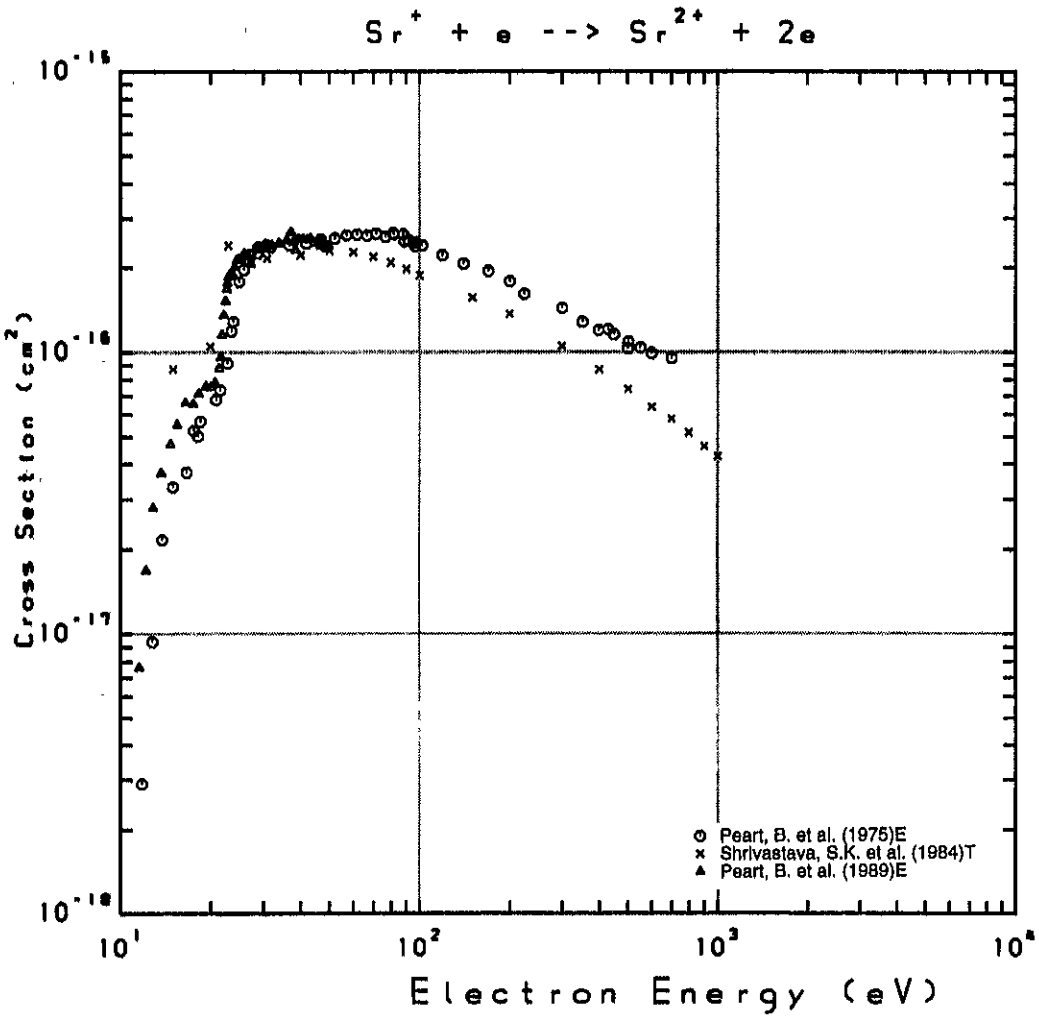

Fig. 303 $Sr^{+} \rightarrow Sr^{2+}$

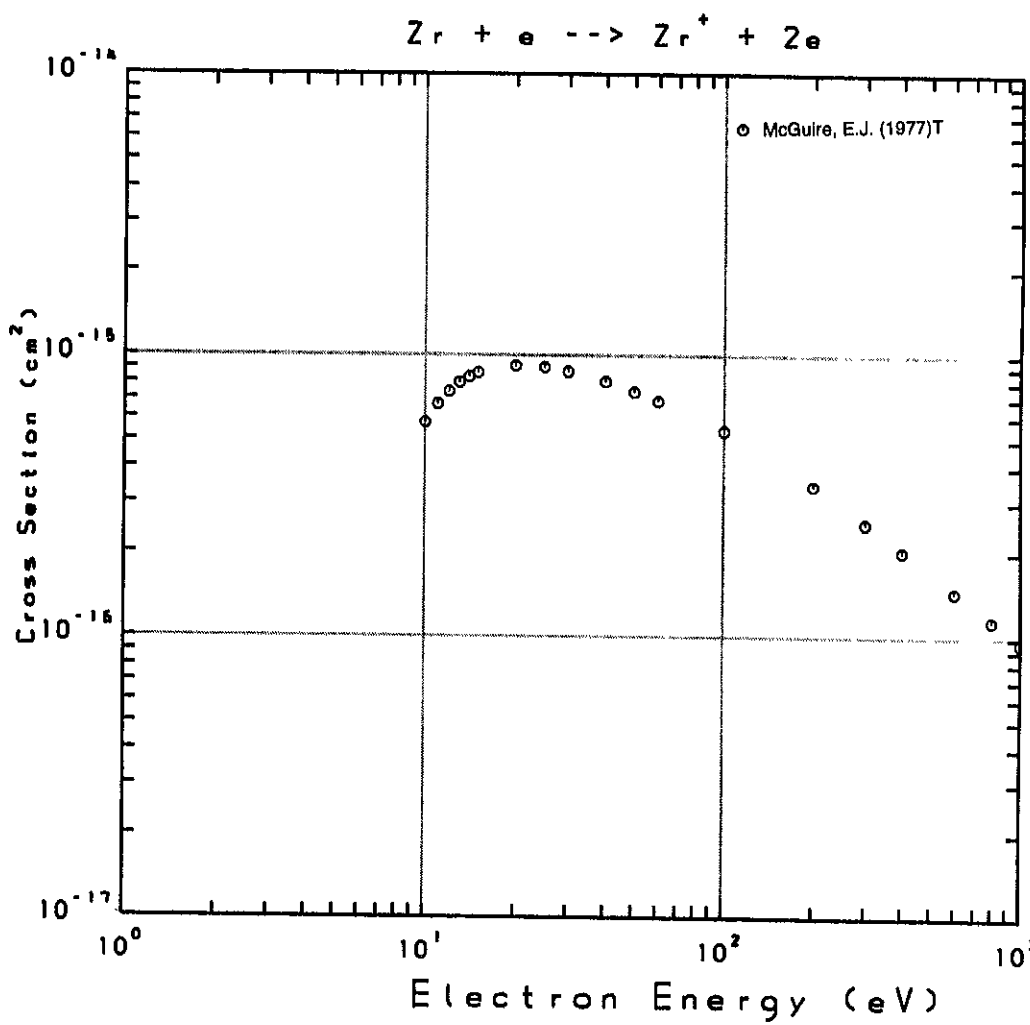

Fig. 304 $Zr \rightarrow Zr^{+}$

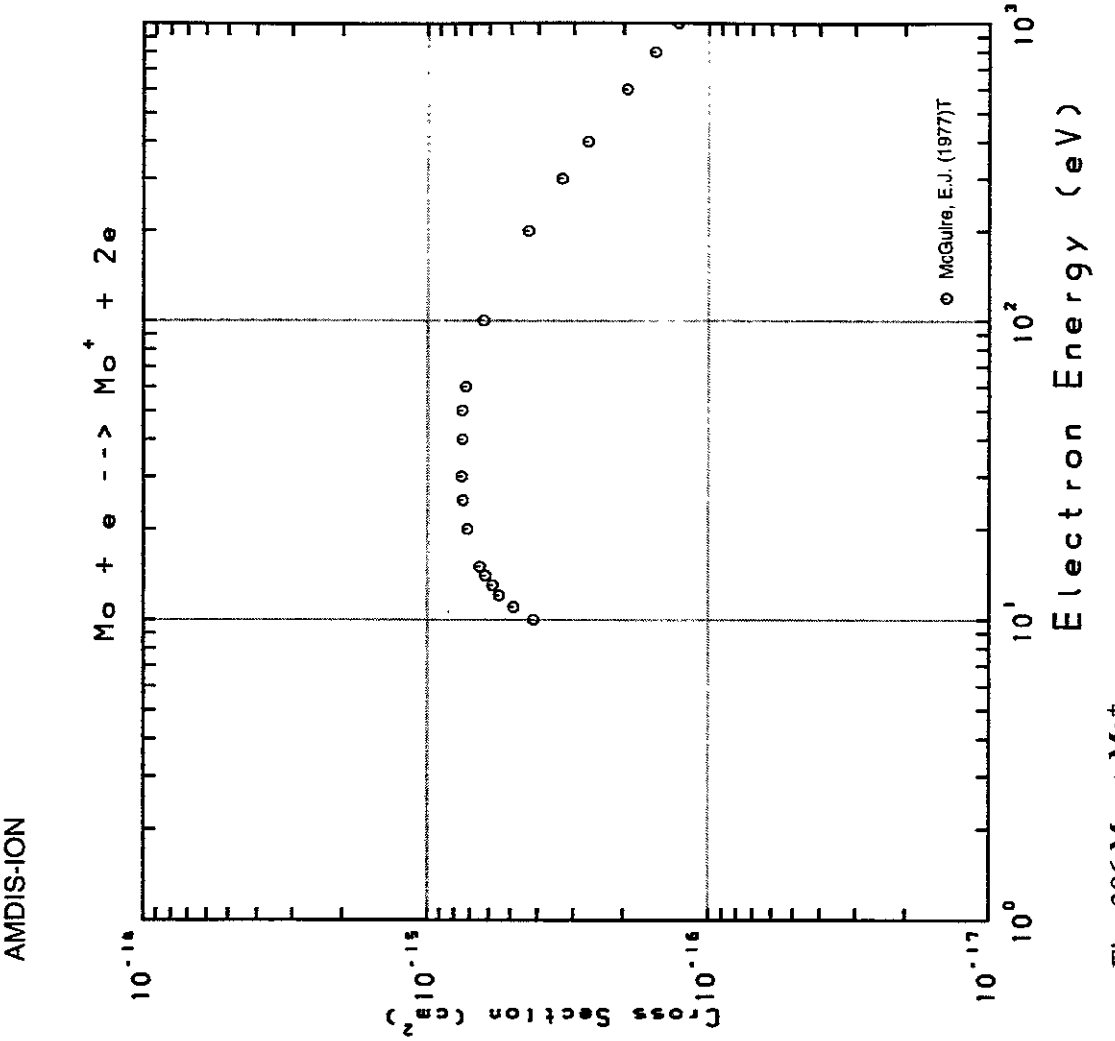

Fig. 306 Mo → Mo^+

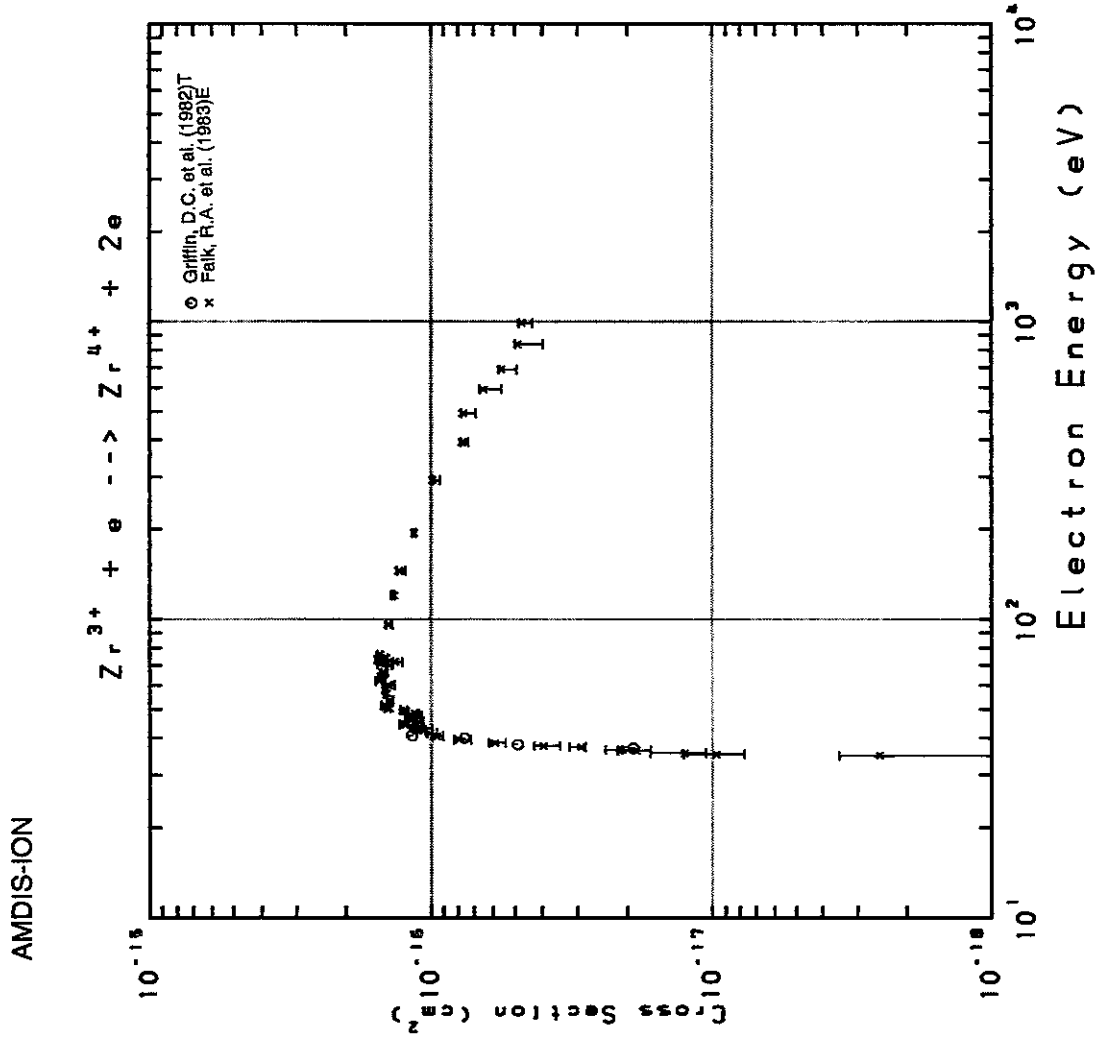

Fig. 305 Zr^{3+} → Zr^{4+}

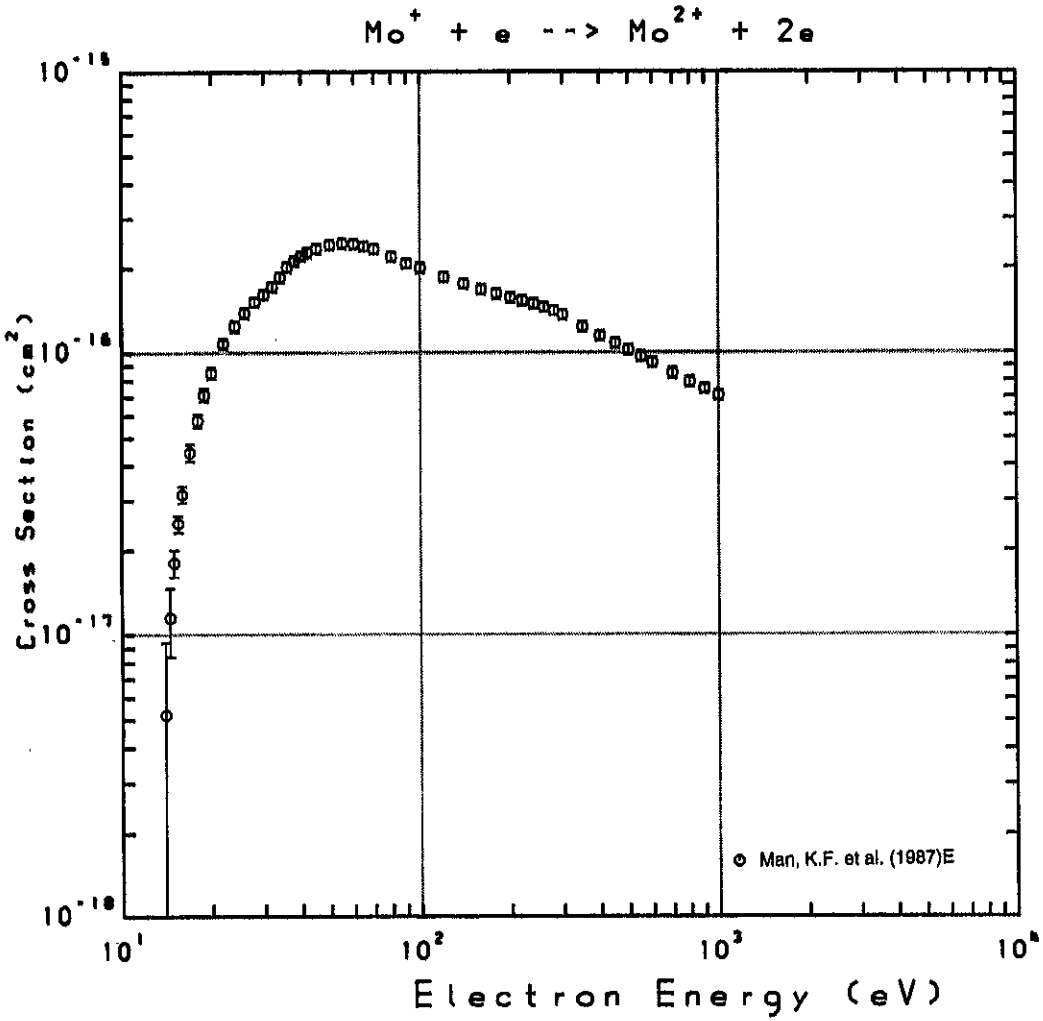

Fig. 307 $Mo^{+} \rightarrow Mo^{2+}$

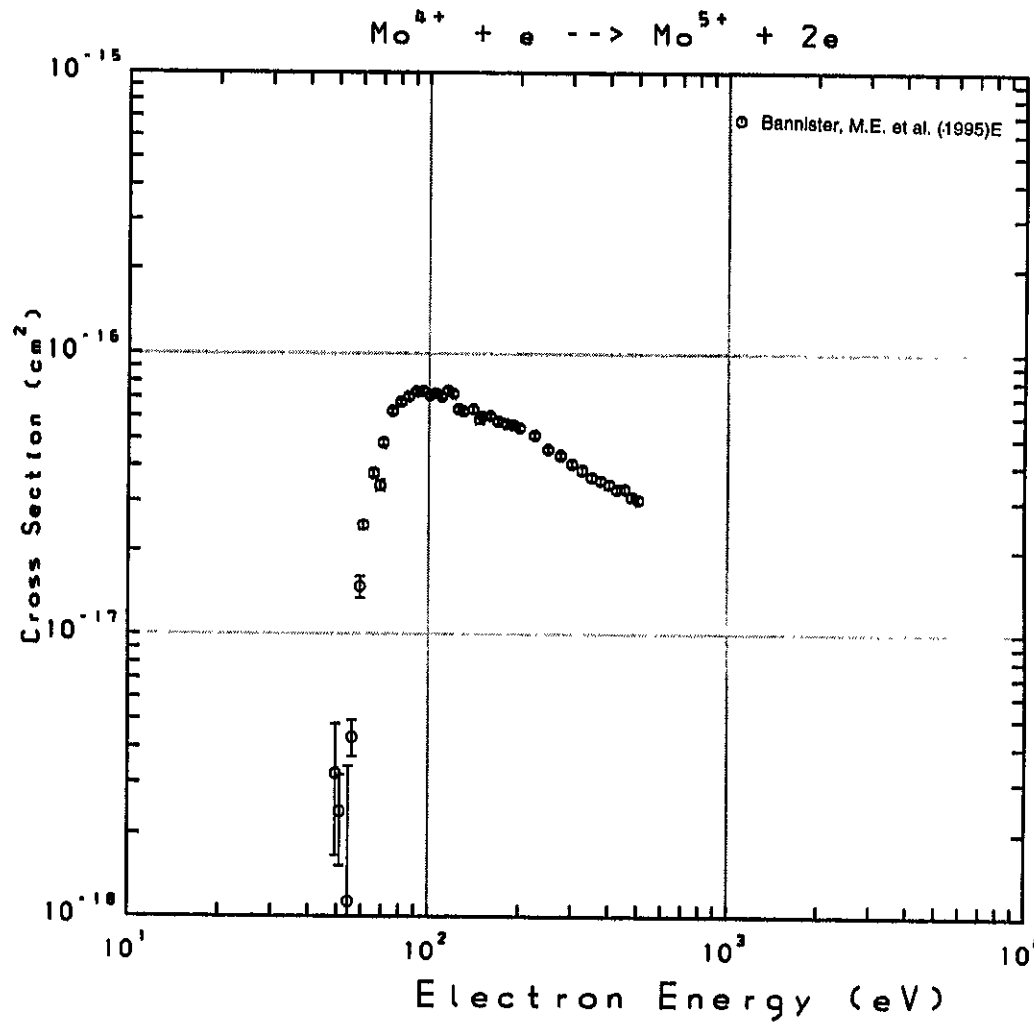

Fig. 308 $Mo^{4+} \rightarrow Mo^{5+}$

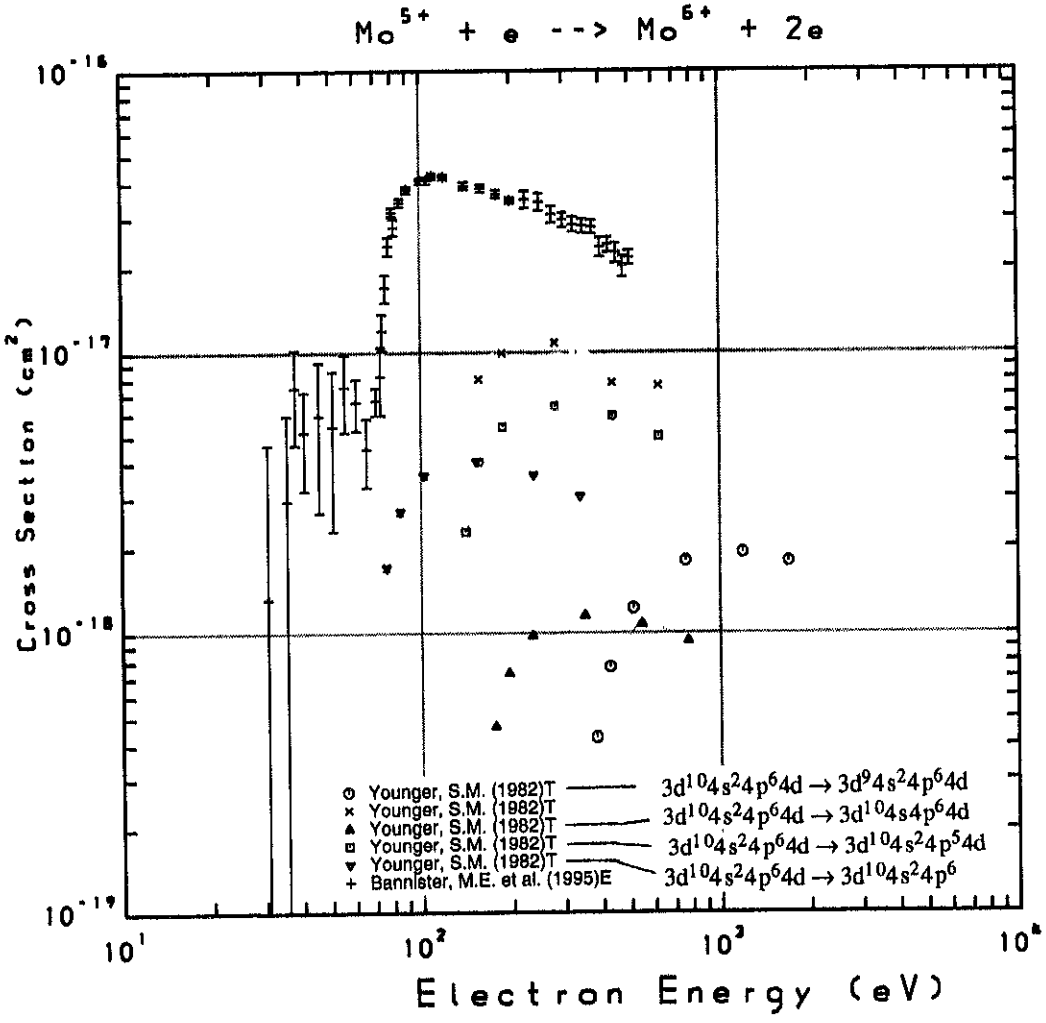

Fig. 309 $Mo^{5+} \rightarrow Mo^{6+}$

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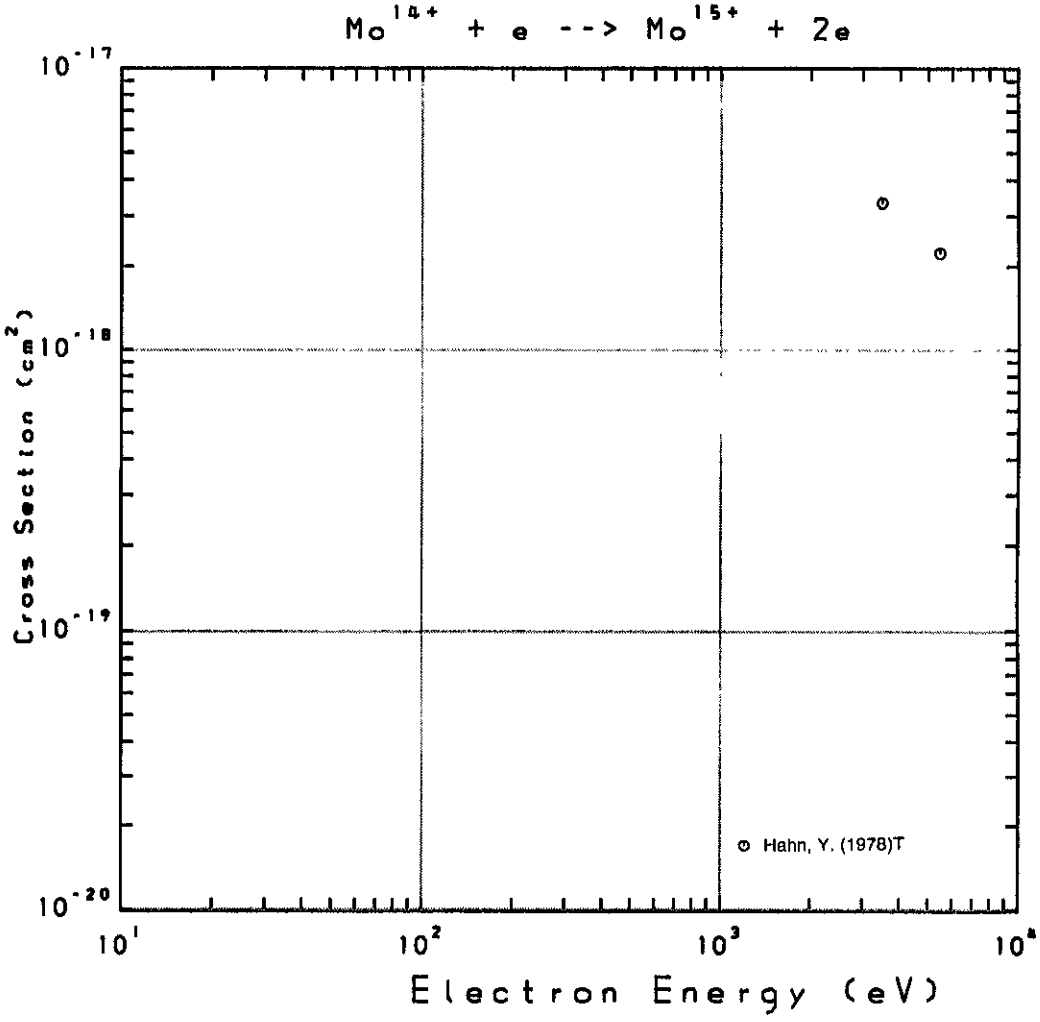

Fig. 310 $Mo^{14+} \rightarrow Mo^{15+}$

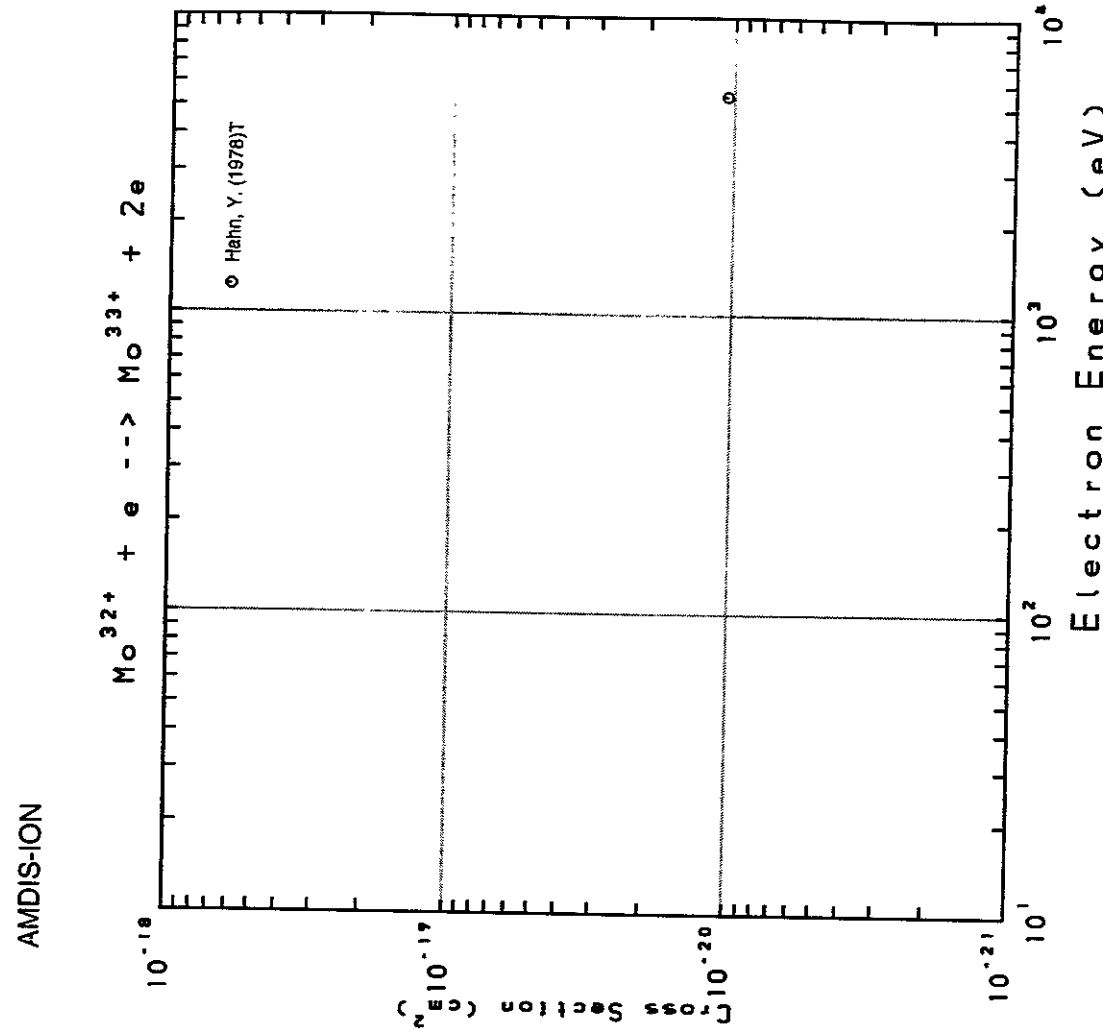

Fig. 312 $Mo^{32+} \rightarrow Mo^{33+}$

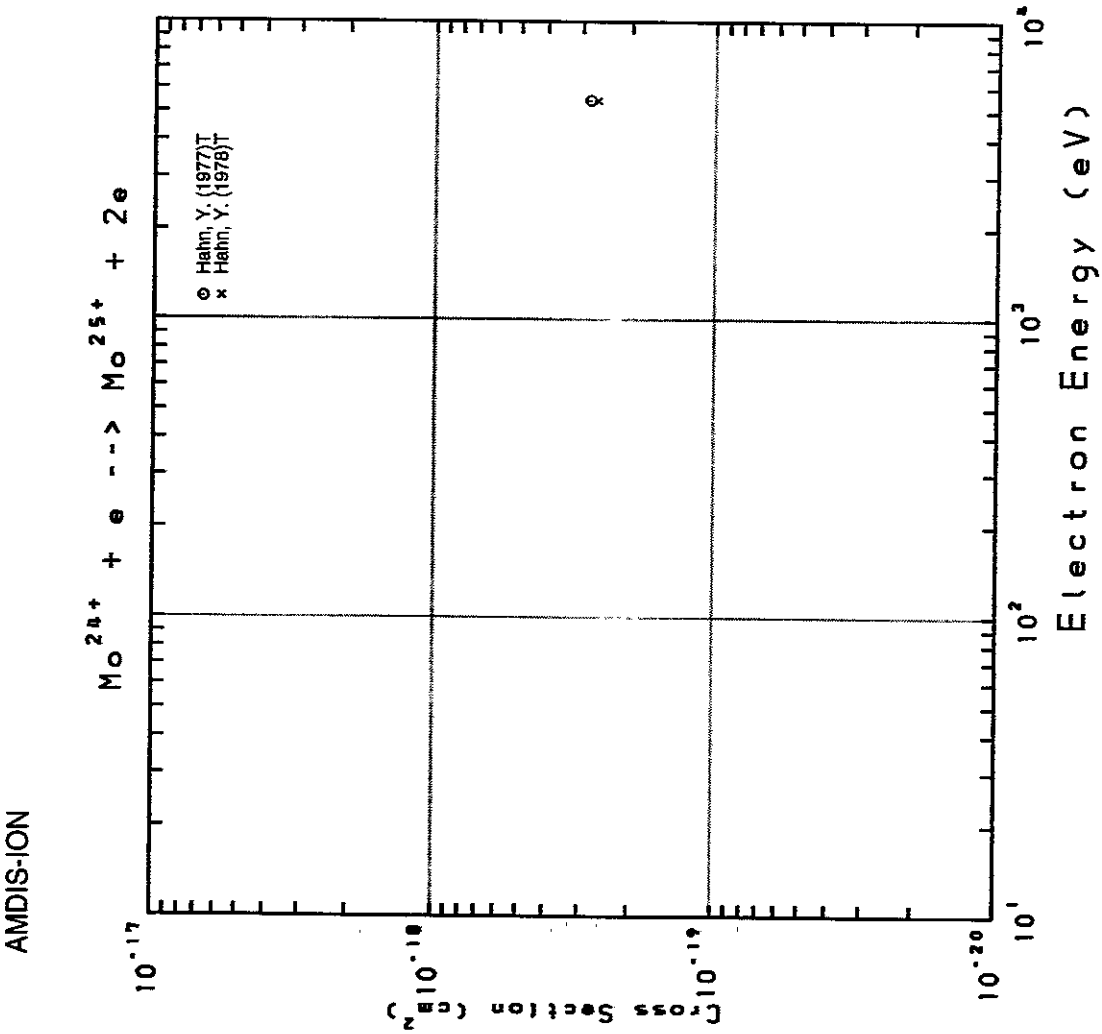

Fig. 311 $Mo^{24+} \rightarrow Mo^{25+}$

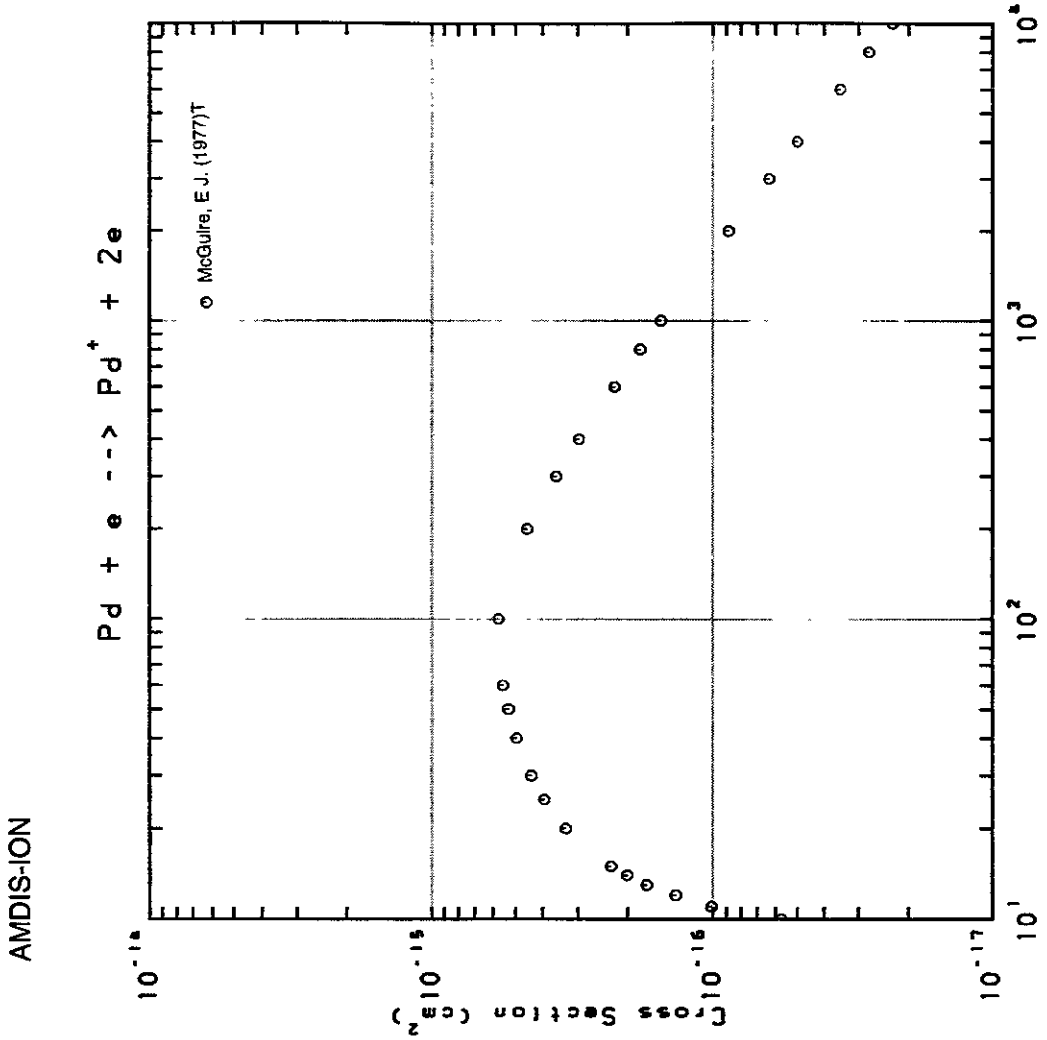

Fig. 314 Pd → Pd^+

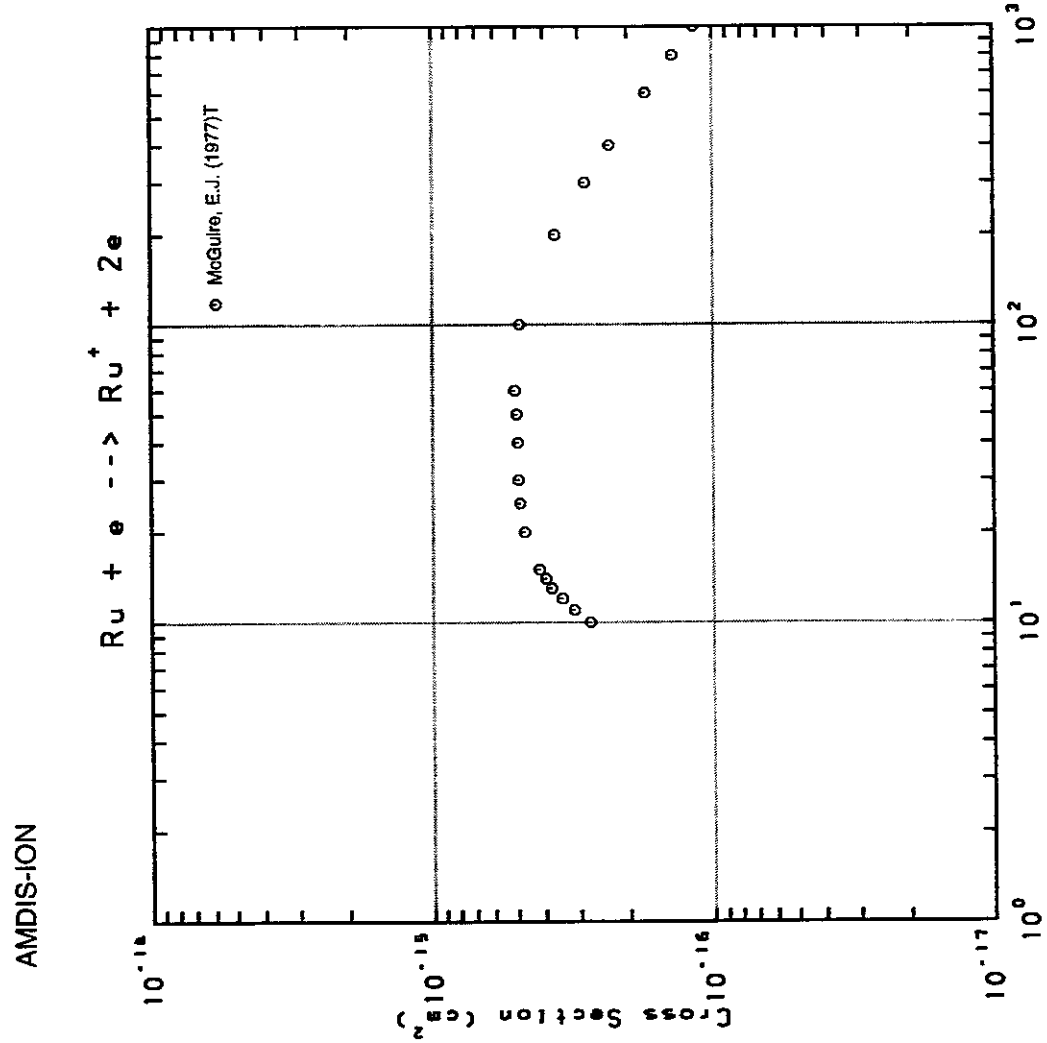

Fig. 313 Ru → Ru^+

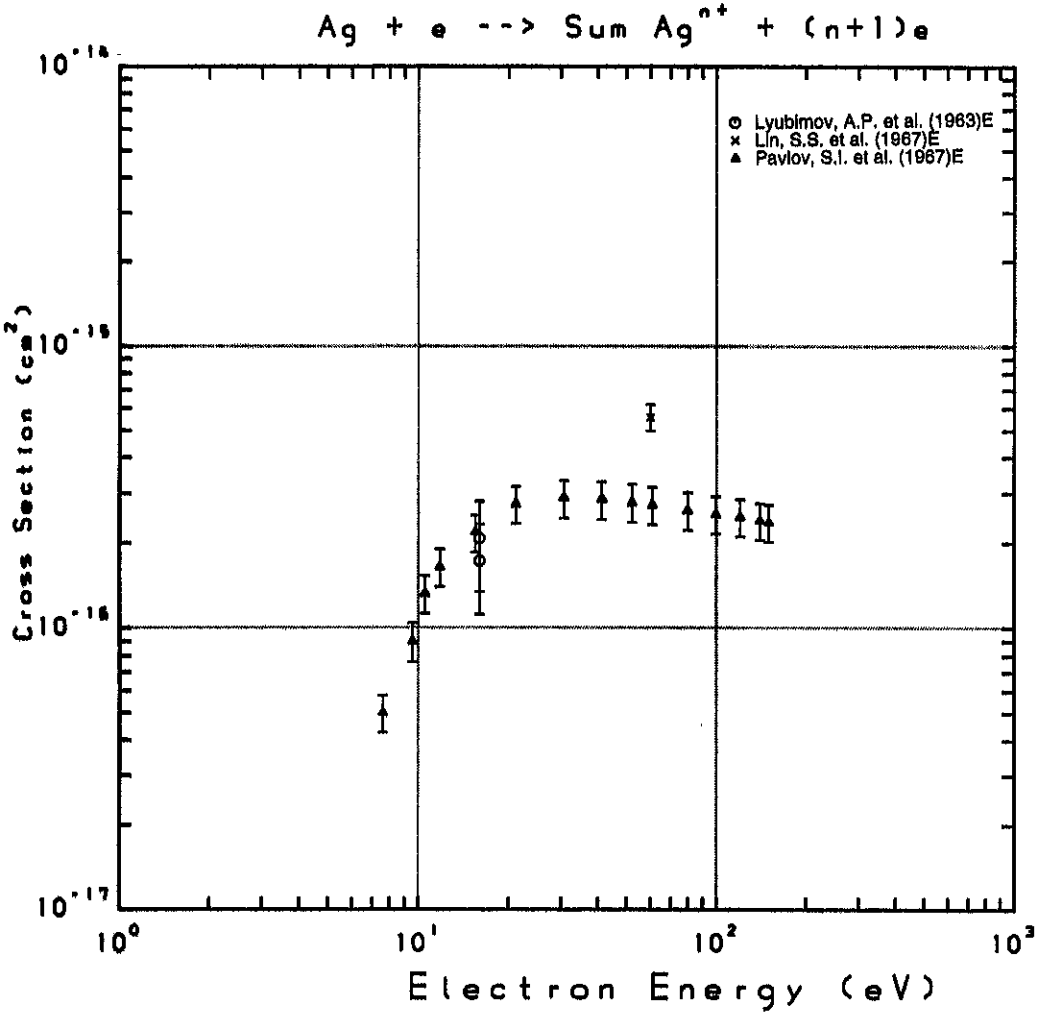

Fig. 315 $Ag \rightarrow \Sigma Ag^{n+}$

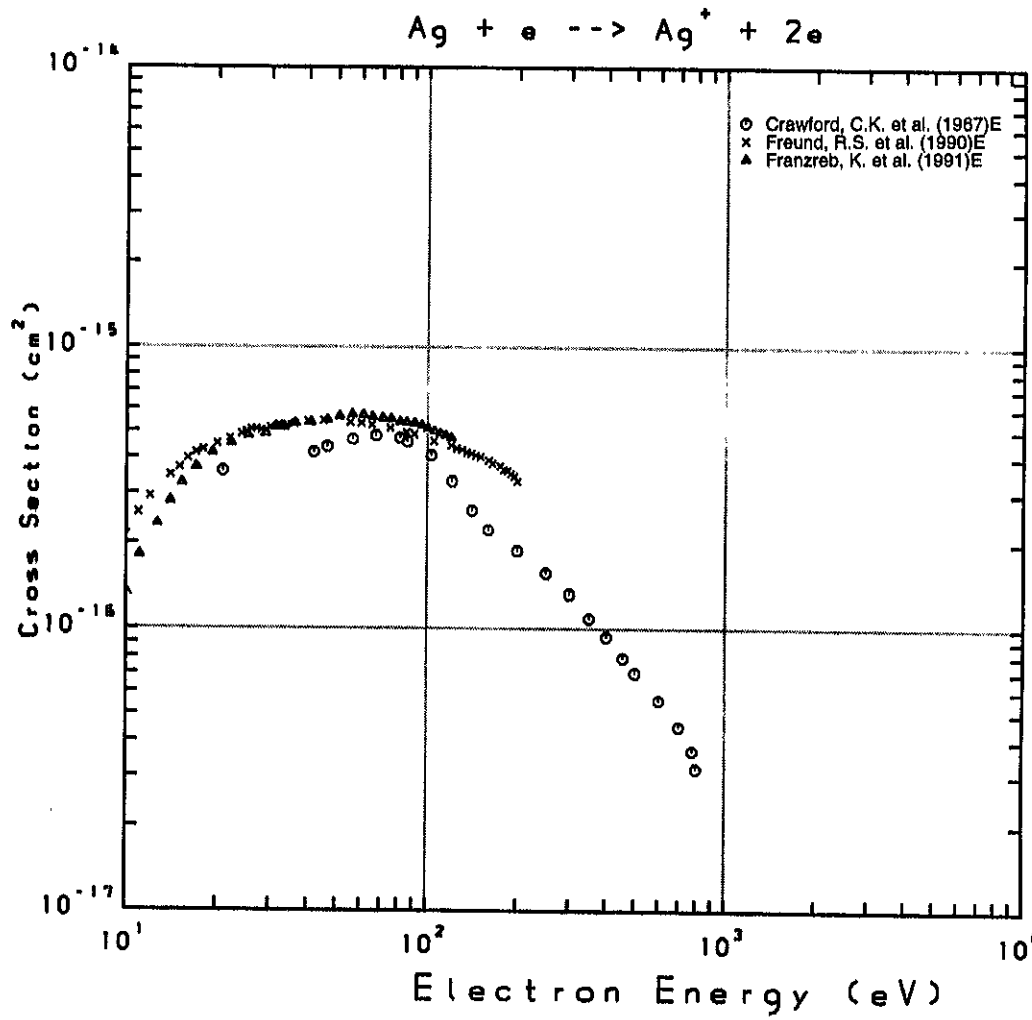

Fig. 316 $Ag \rightarrow Ag^{+}$

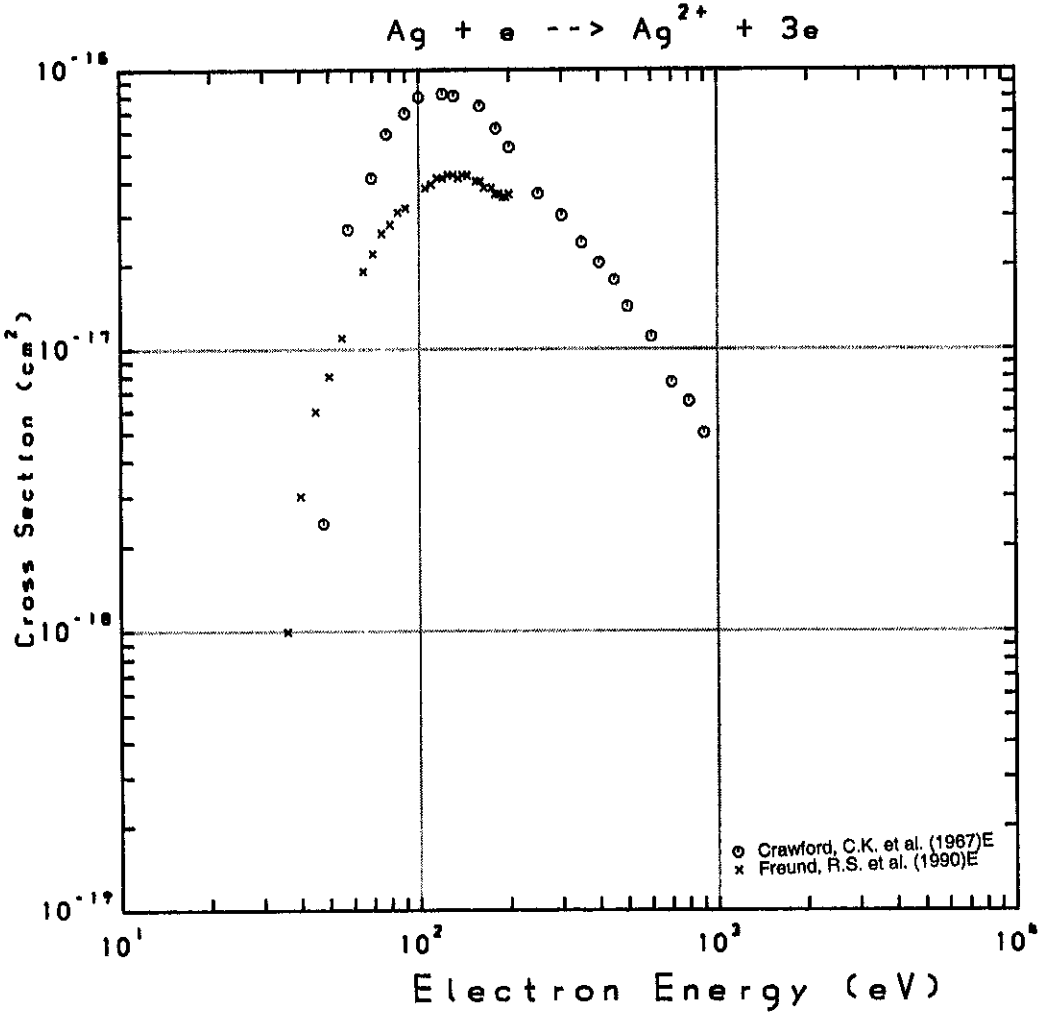

Fig. 317 Ag → Ag^{2+}

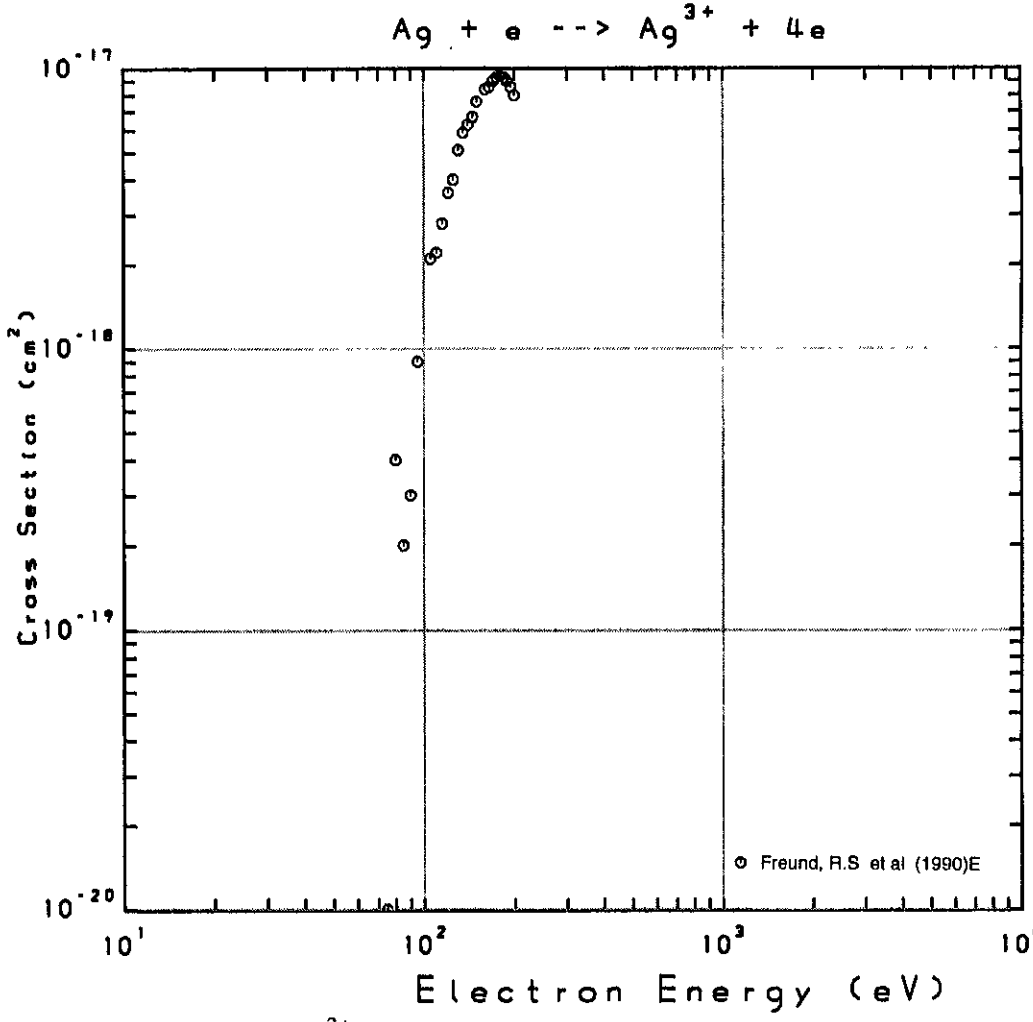

Fig. 318 Ag → Ag^{3+}

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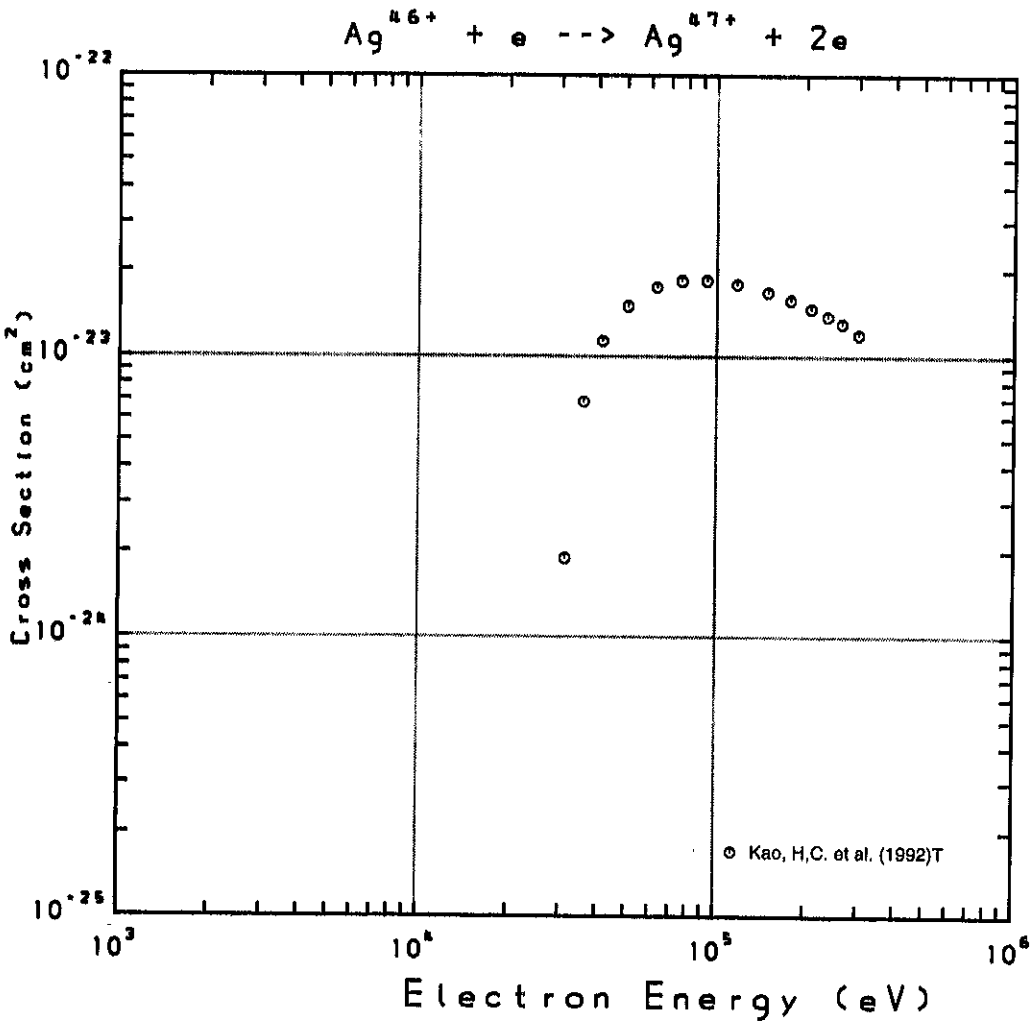

Fig. 319 $Ag^{46+} \rightarrow Ag^{47+}$

AMDIS-ION

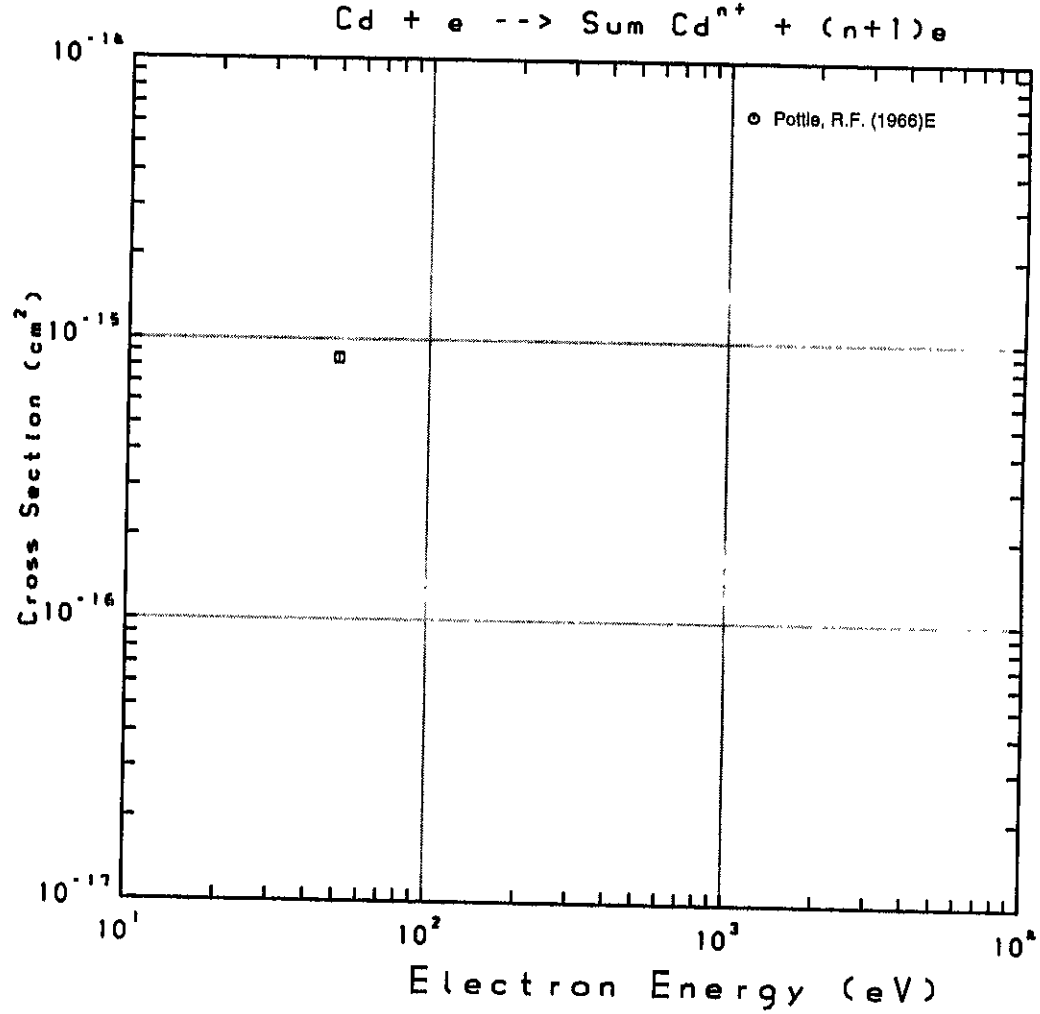

Fig. 320 $Cd \rightarrow \Sigma Cd^{n+}$

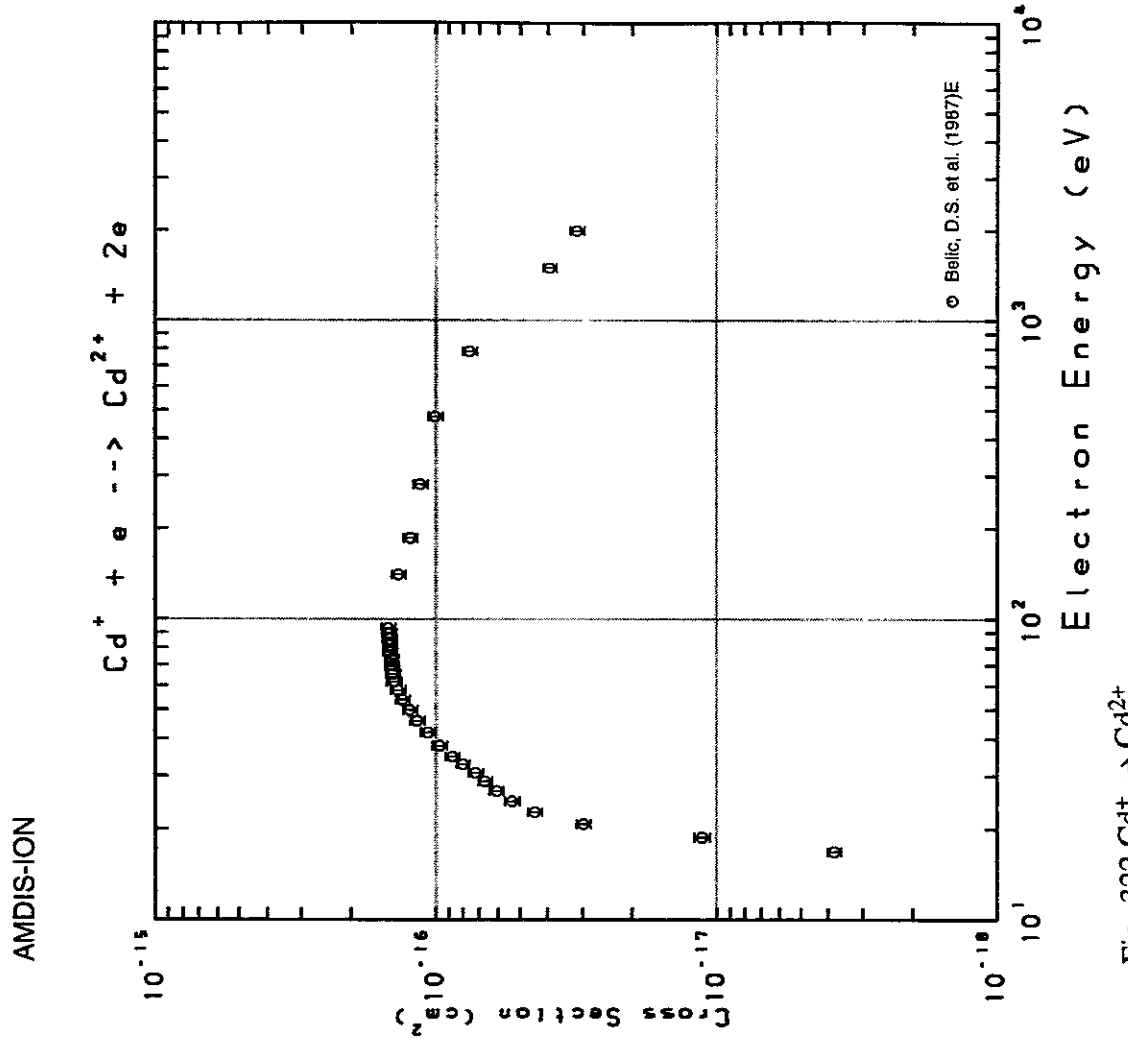

Fig. 321 $Cd \rightarrow Cd^{+}$

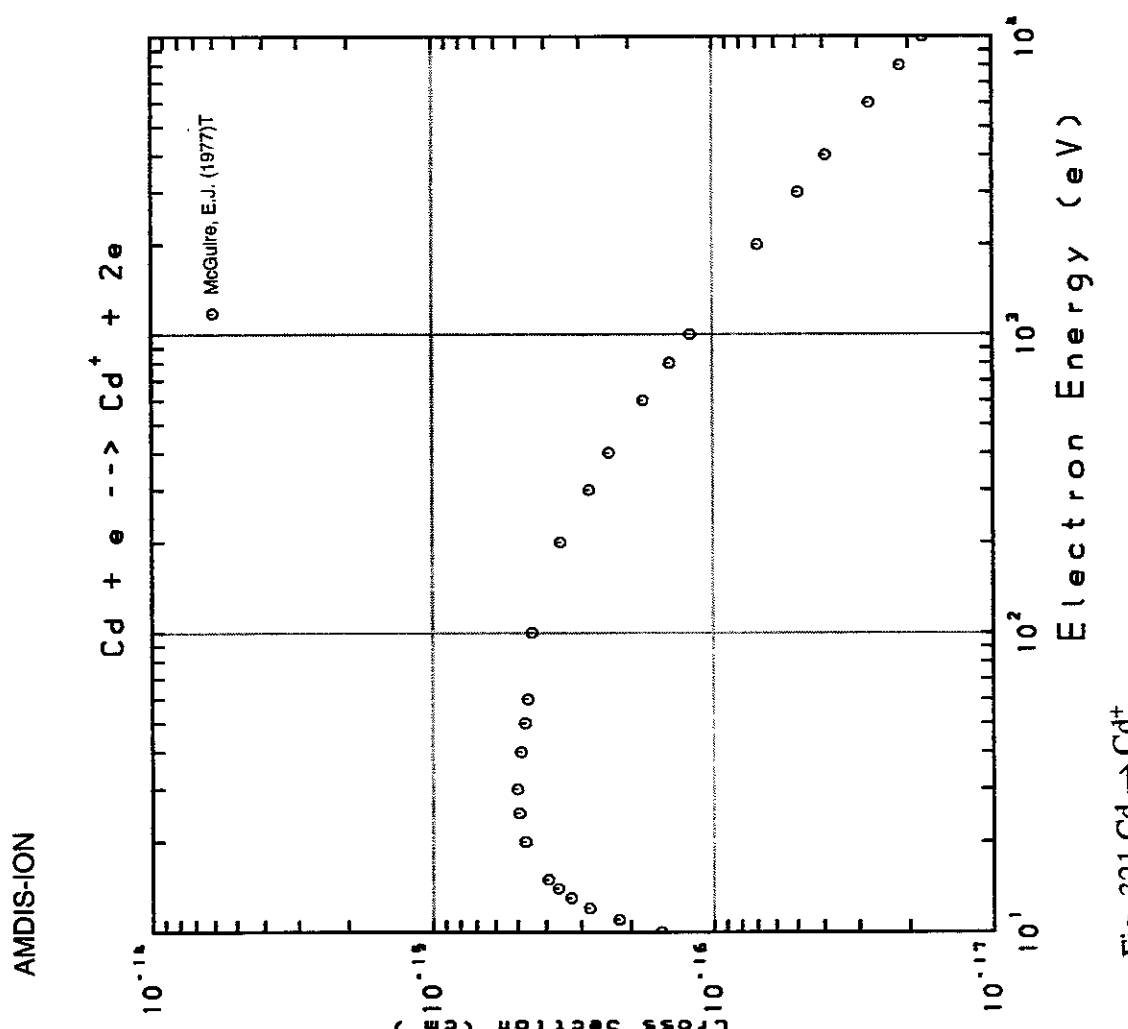

Fig. 322 $Cd^{+} \rightarrow Cd^{2+}$

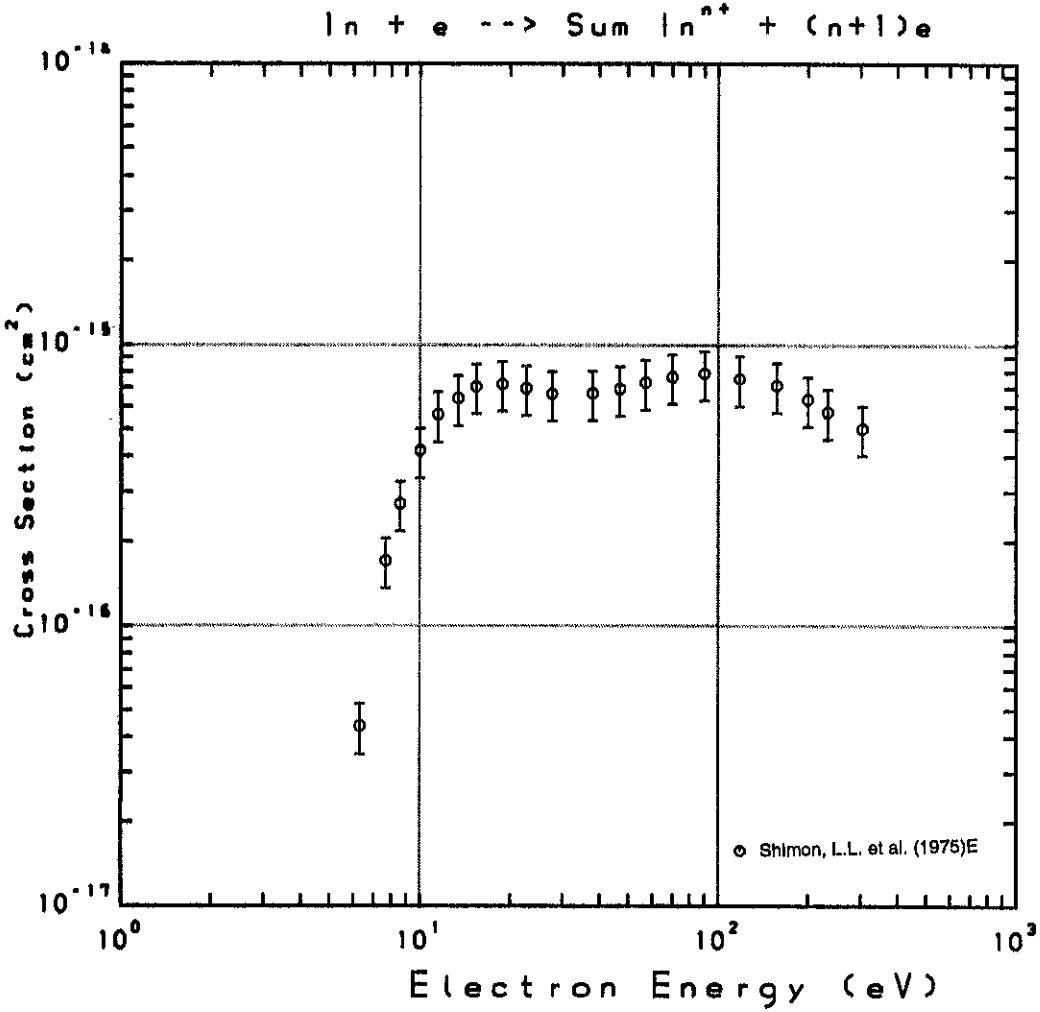

Fig. 323 In → ΣIn^{n+}

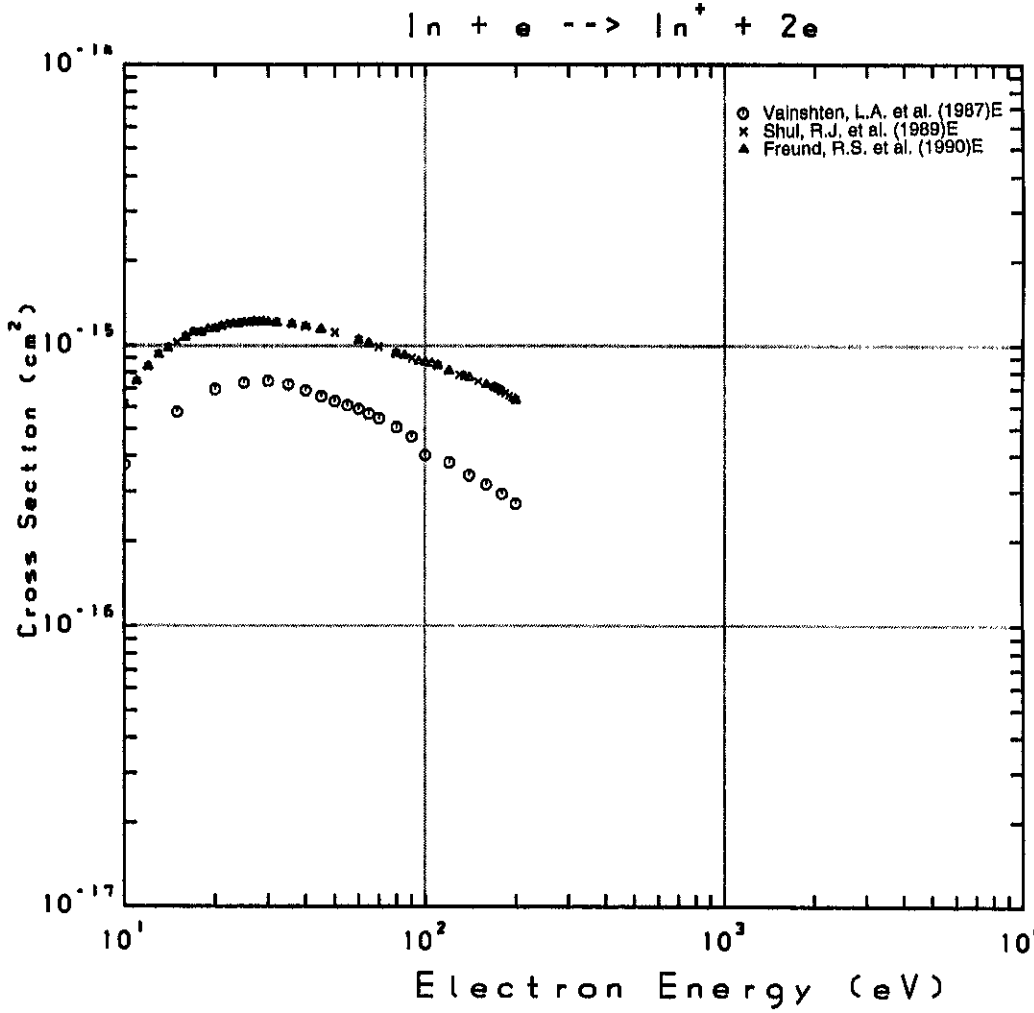

Fig. 324 In → In^+

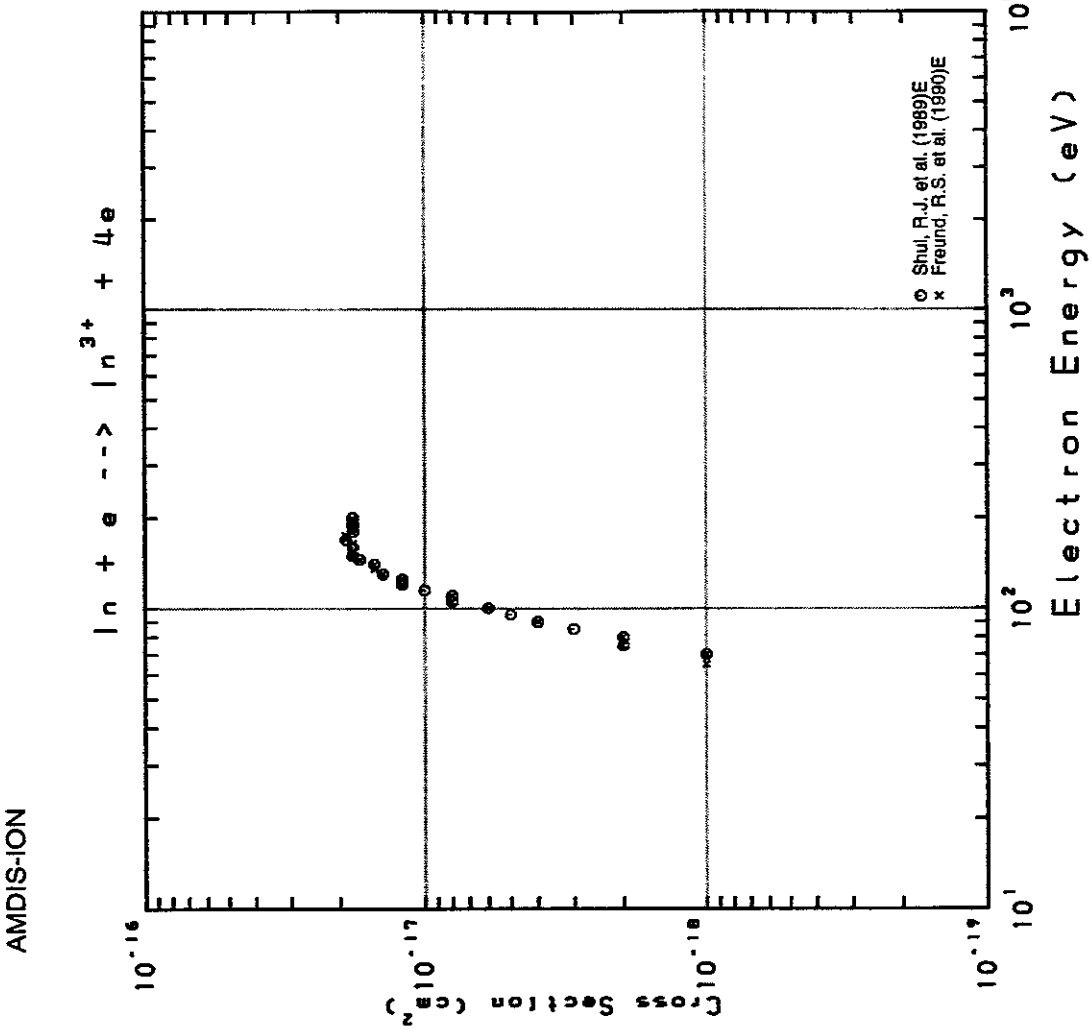

Fig. 326 In → In^{3+}

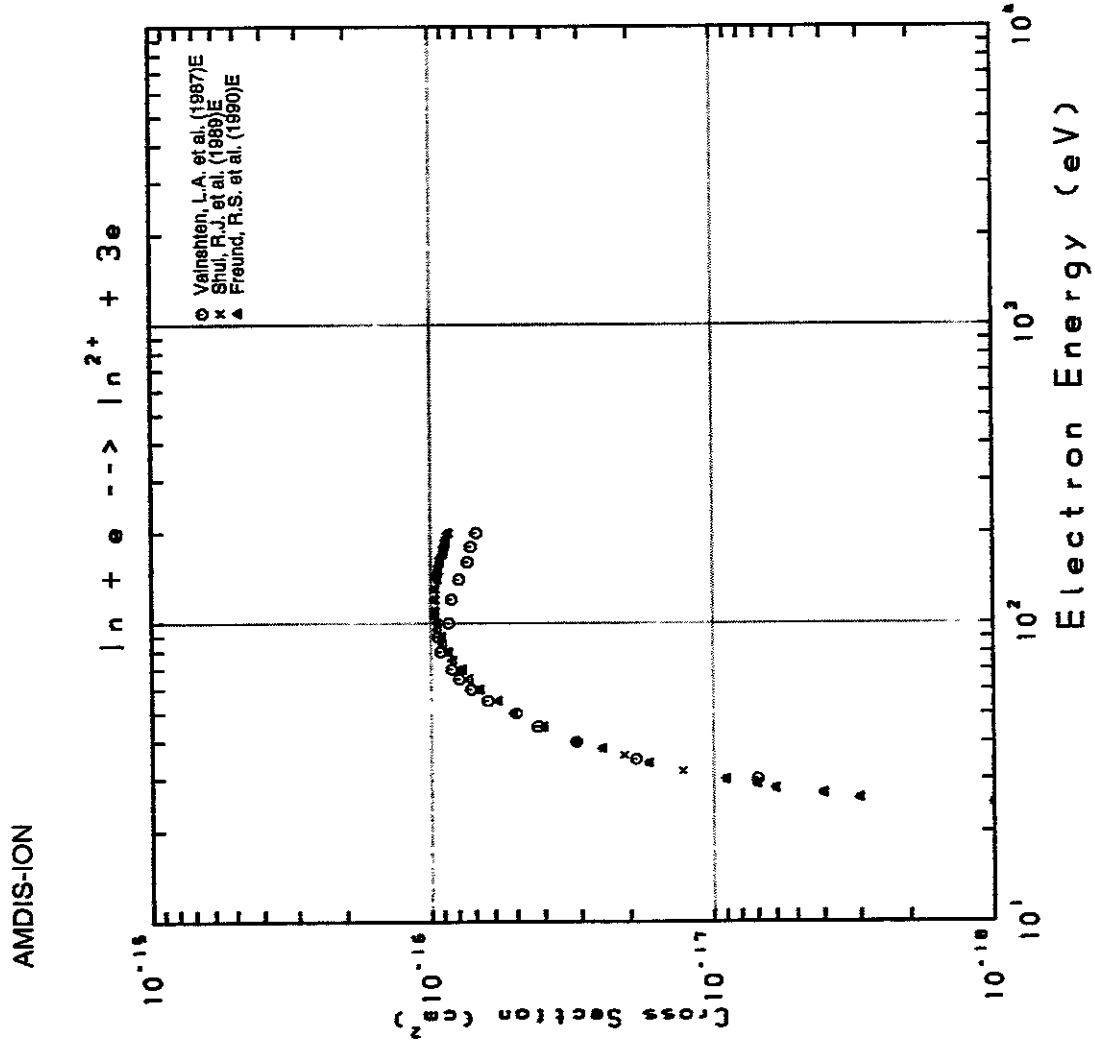

Fig. 325 In → In^{2+}

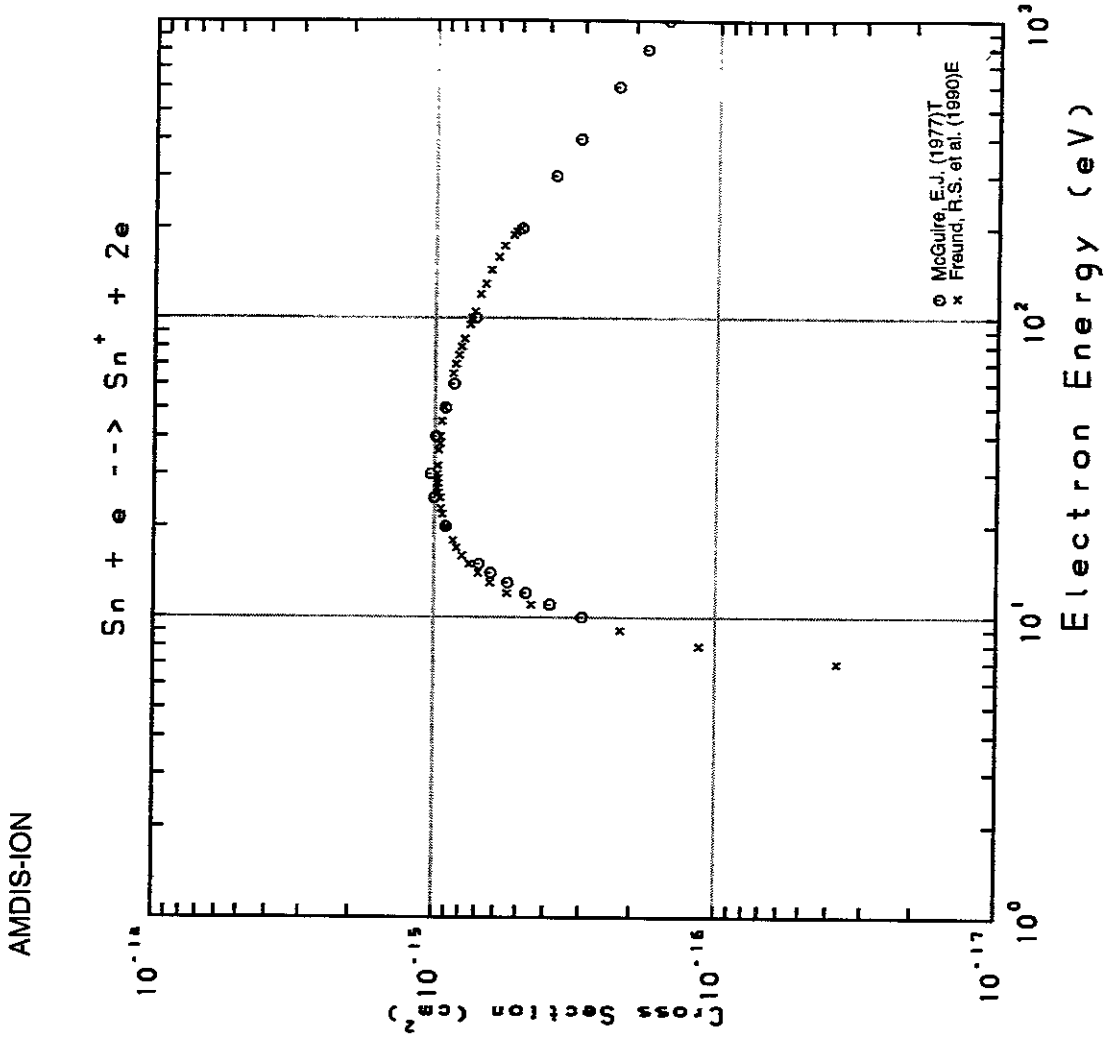

Fig. 328 $Sn \rightarrow Sn^{+}$

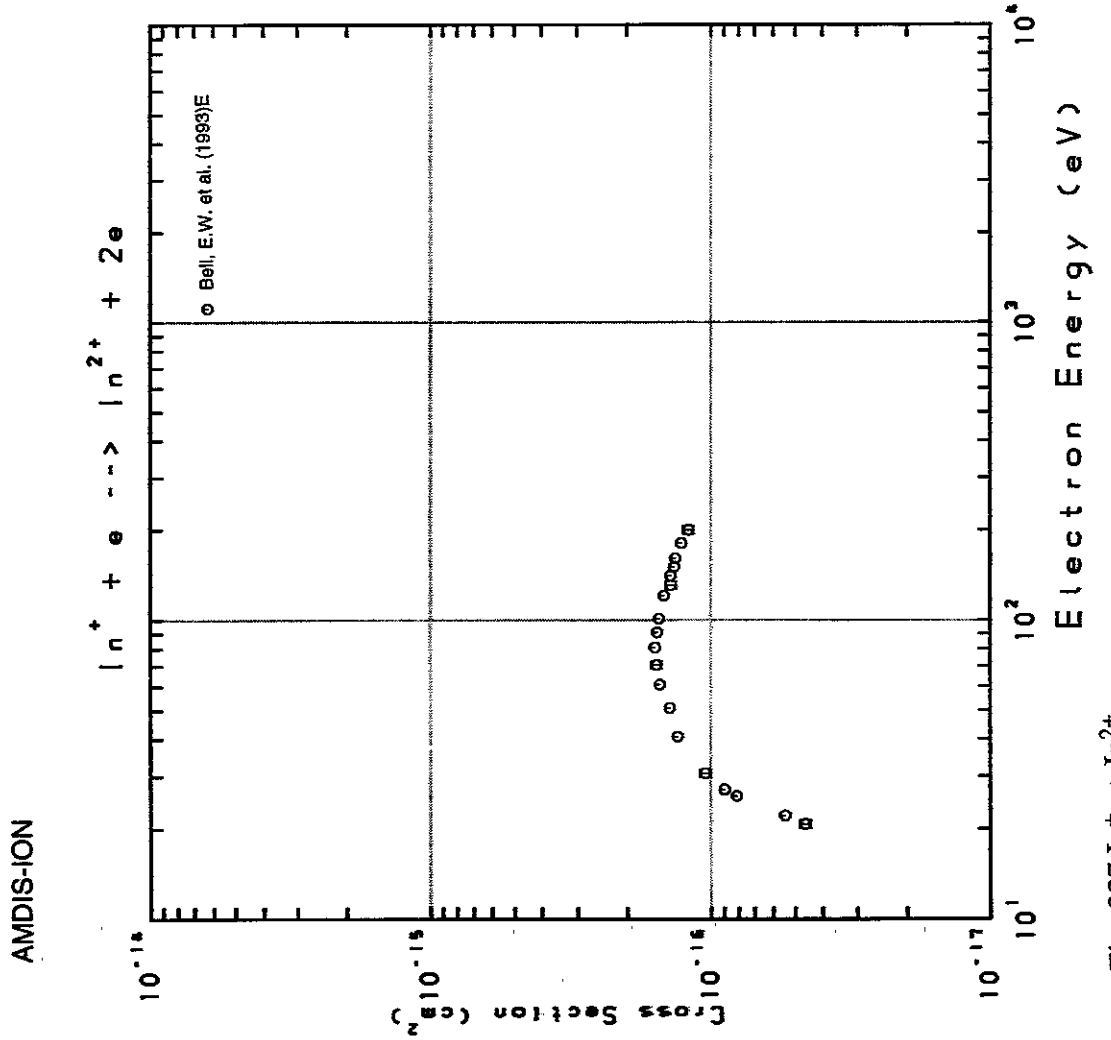

Fig. 327 $In^{+} \rightarrow In^{2+}$

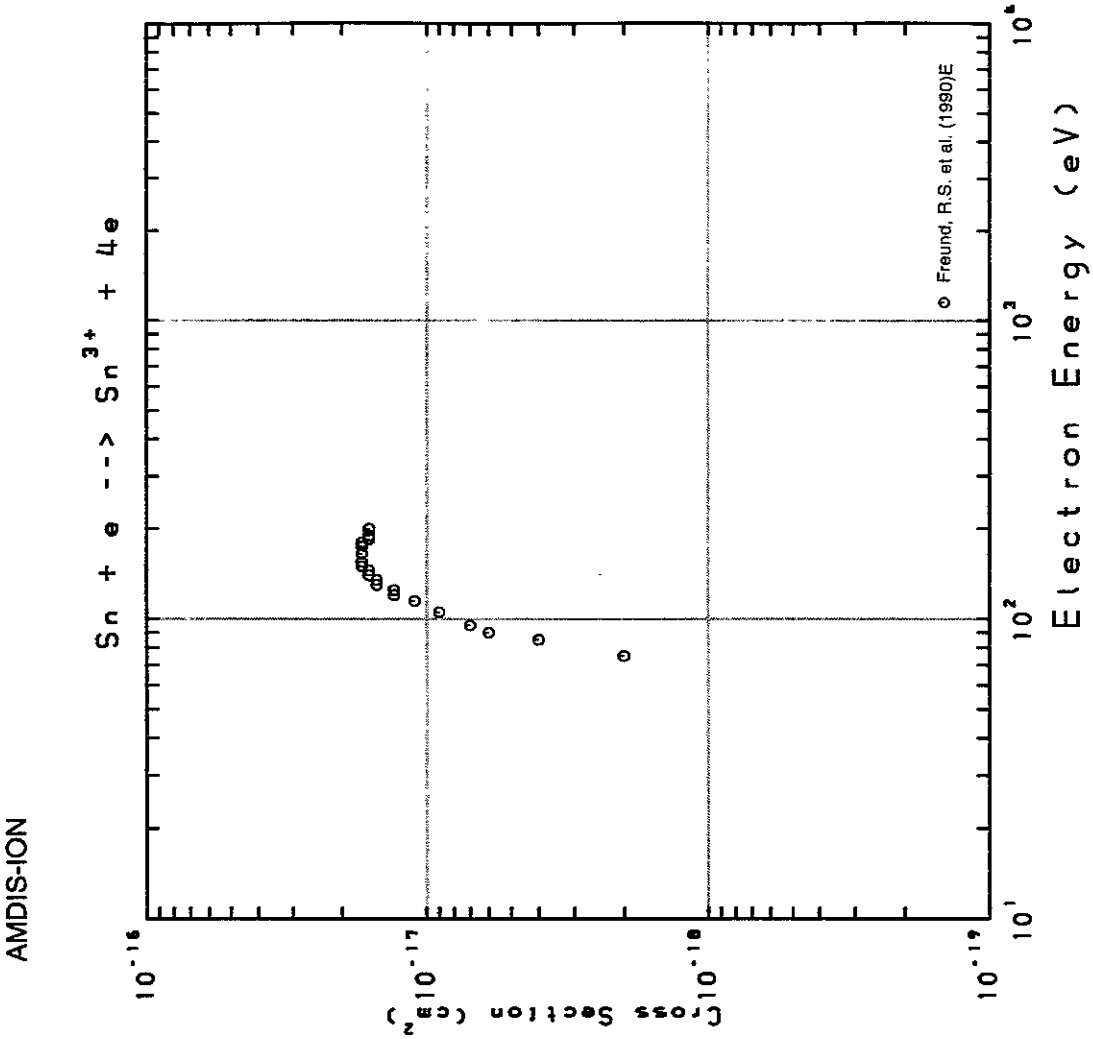

Fig. 330 Sn → Sn^{3+}

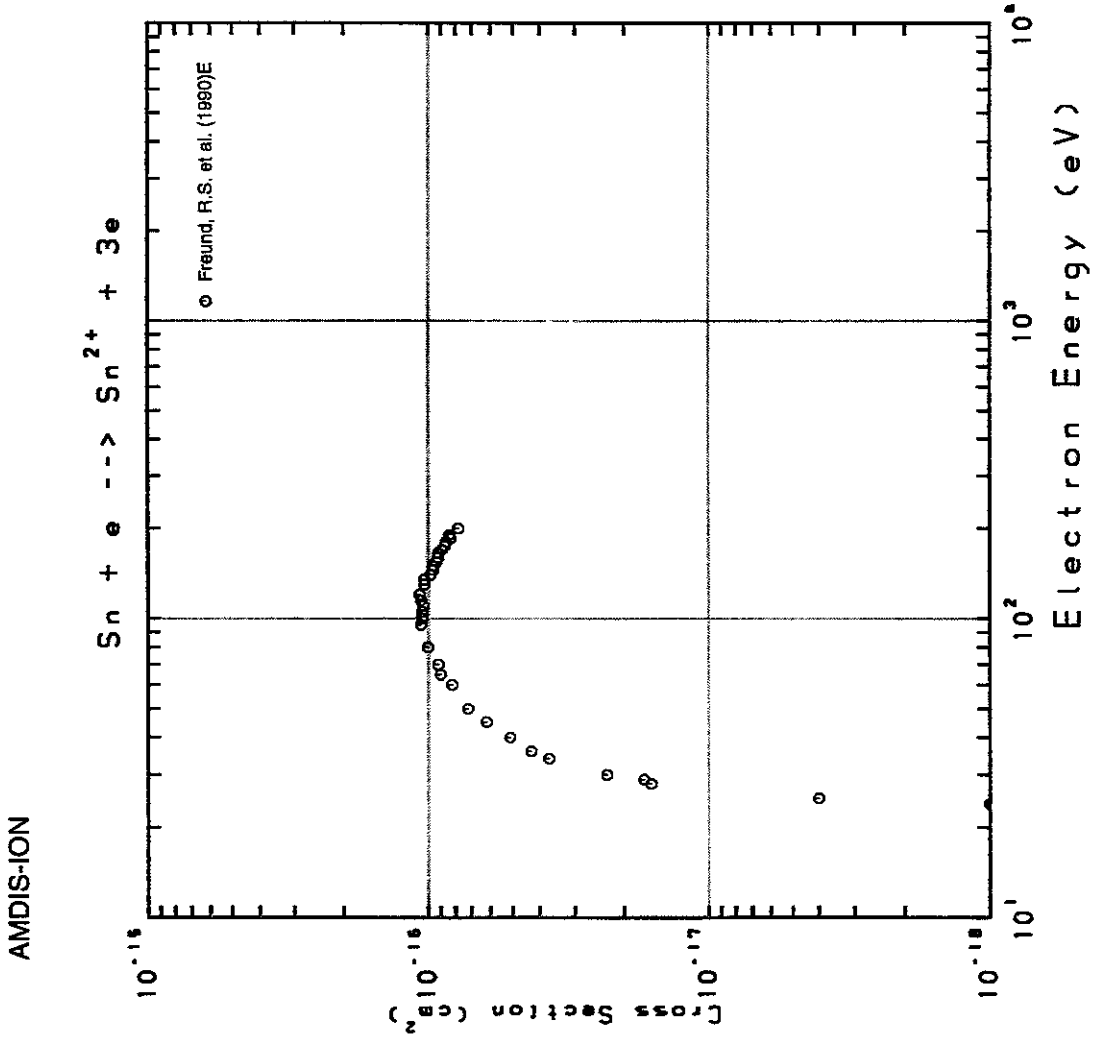

Fig. 329 Sn → Sn^{2+}

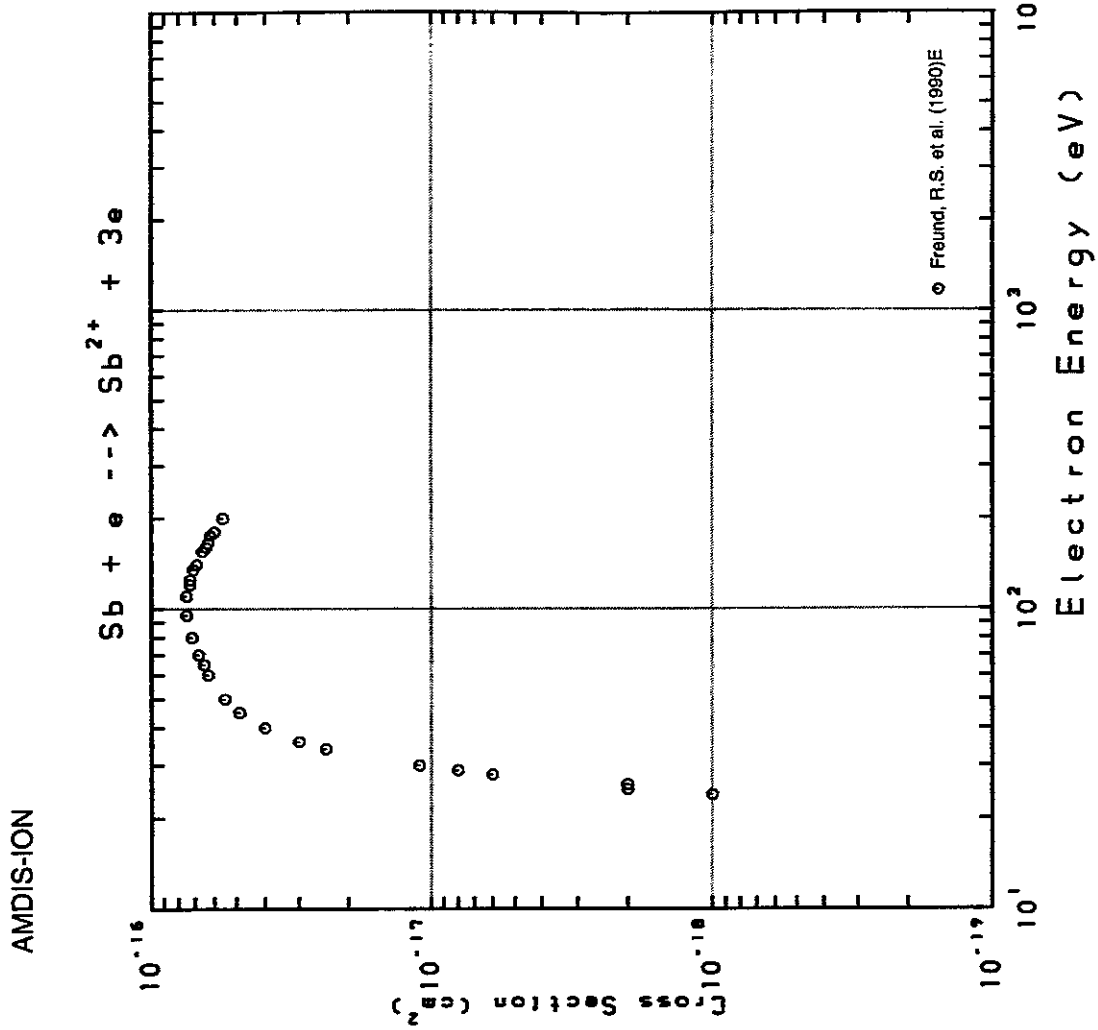

Fig. 331 Sb → Sb^+

Fig. 332 Sb → Sb^{2+}

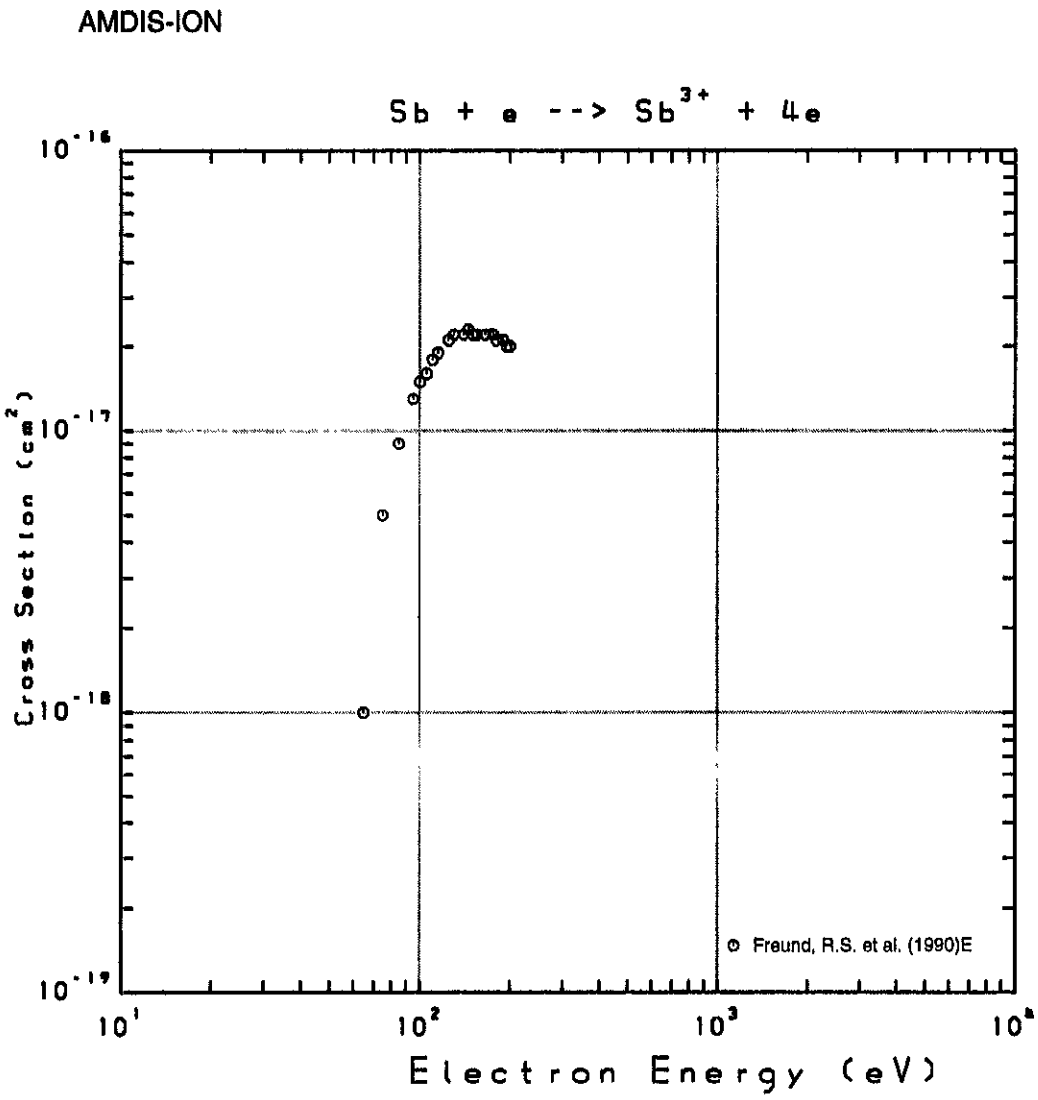

Fig. 333 Sb → Sb^{3+}

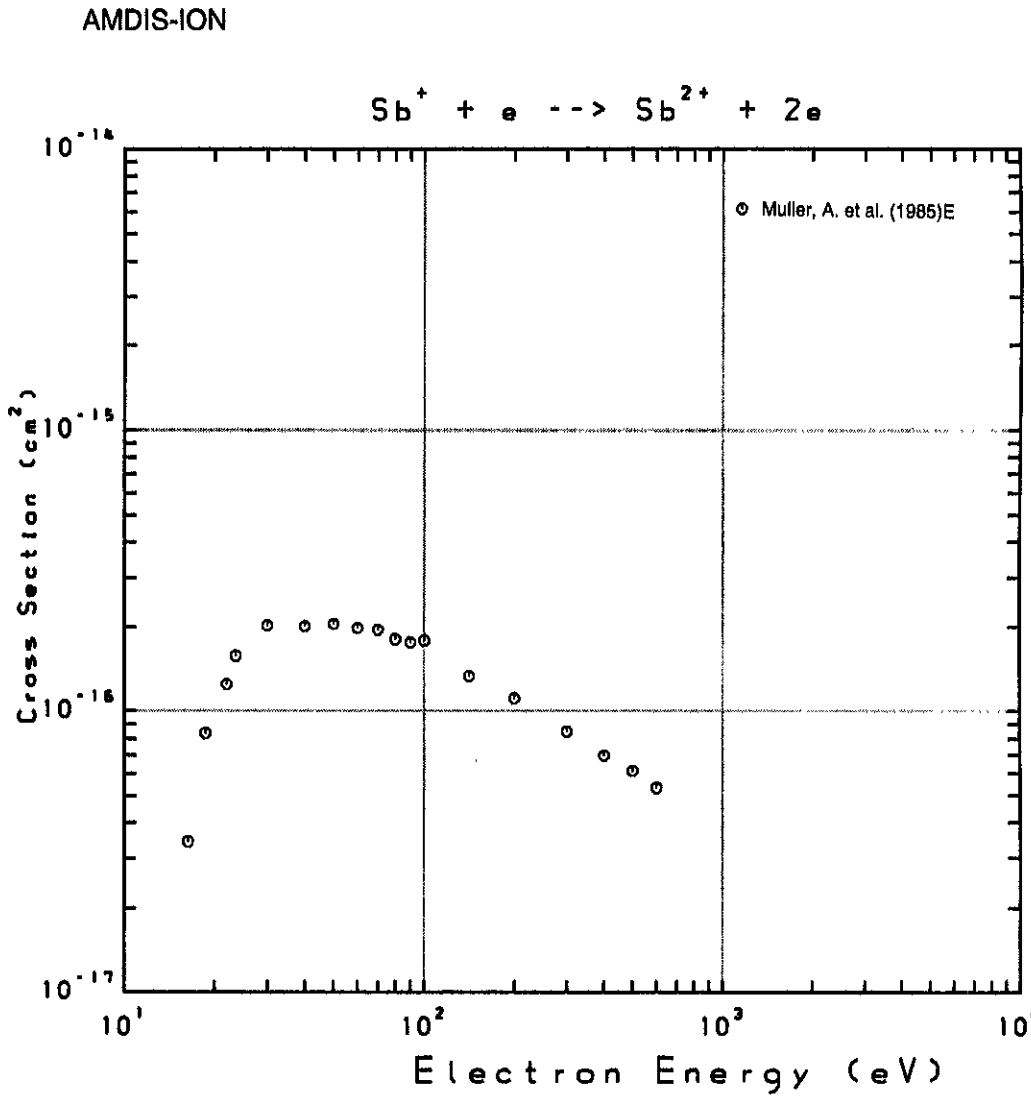

Fig. 334 Sb^{+} → Sb^{2+}

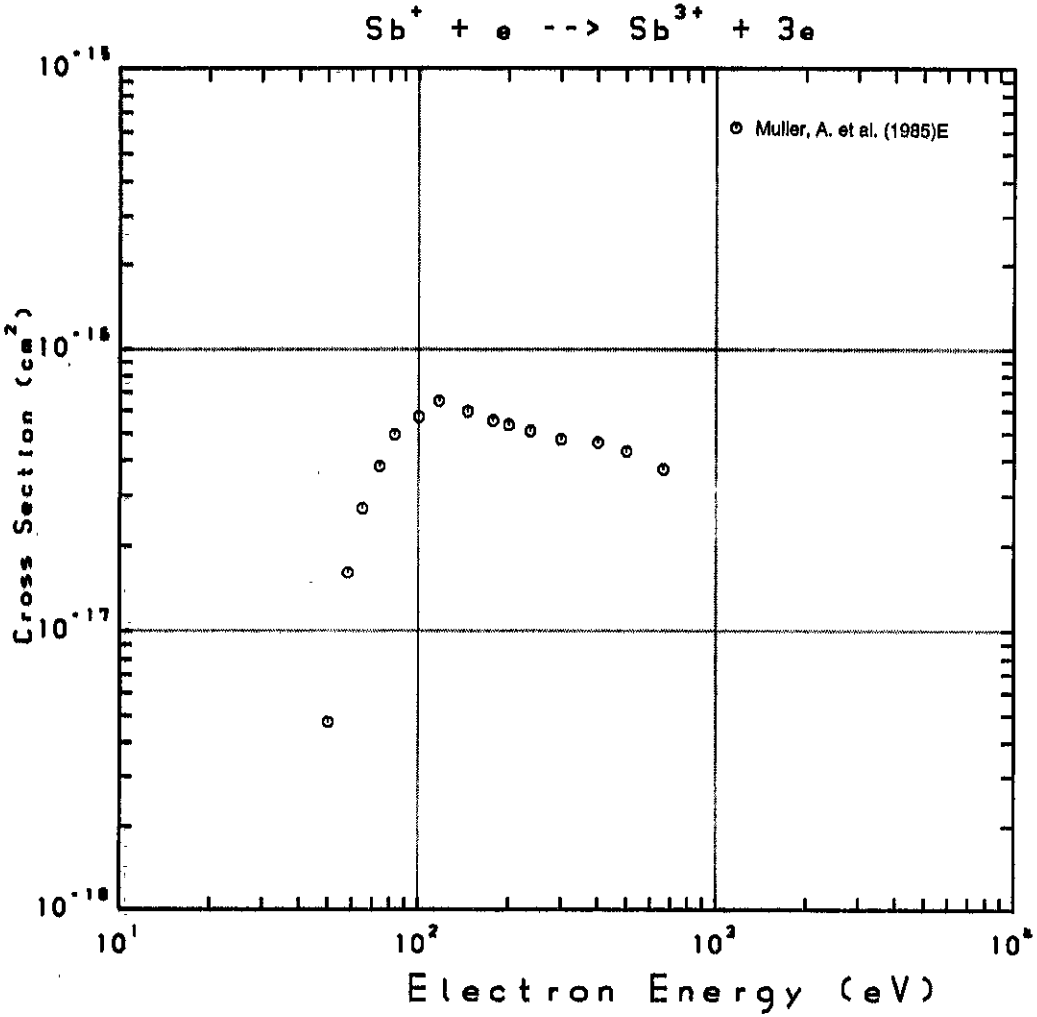

Fig. 335 $Sb^{+} \rightarrow Sb^{3+}$

AMDIS-ION

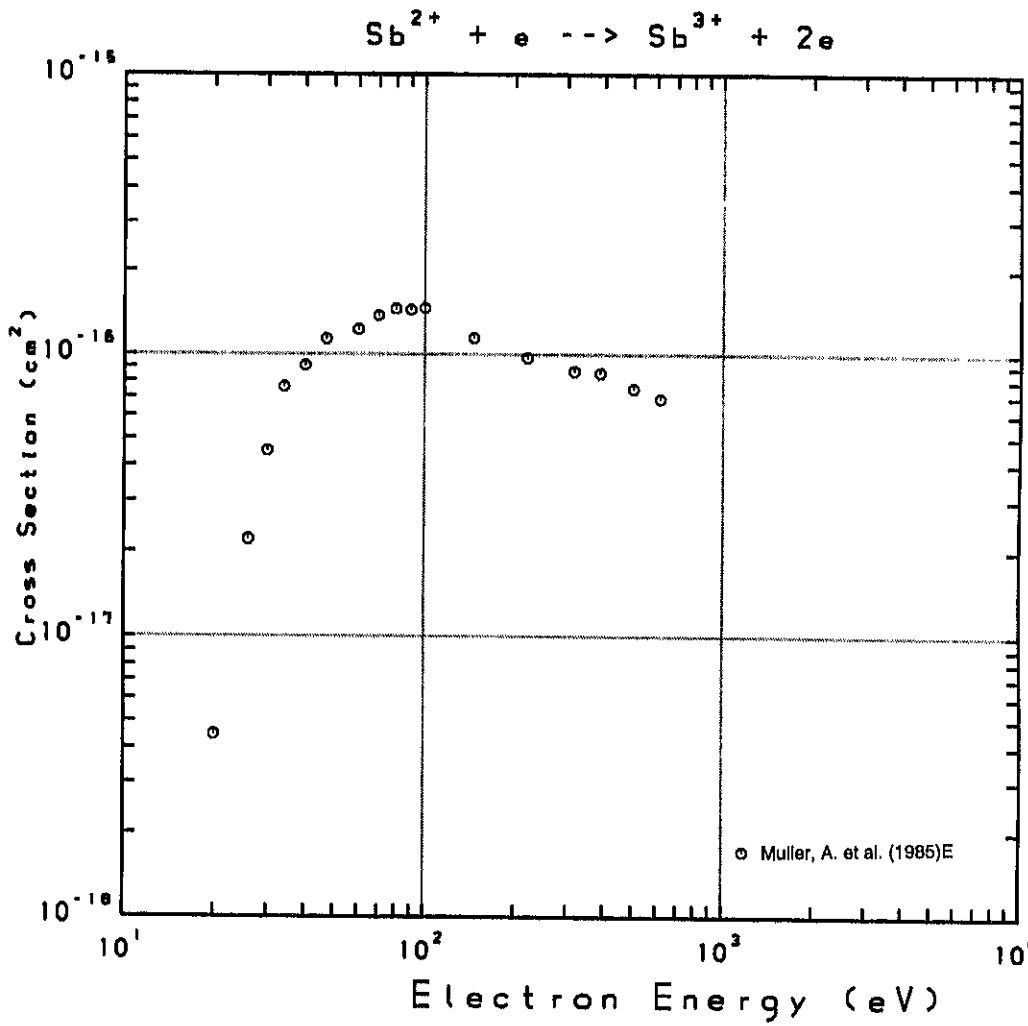

Fig. 336 $Sb^{2+} \rightarrow Sb^{3+}$

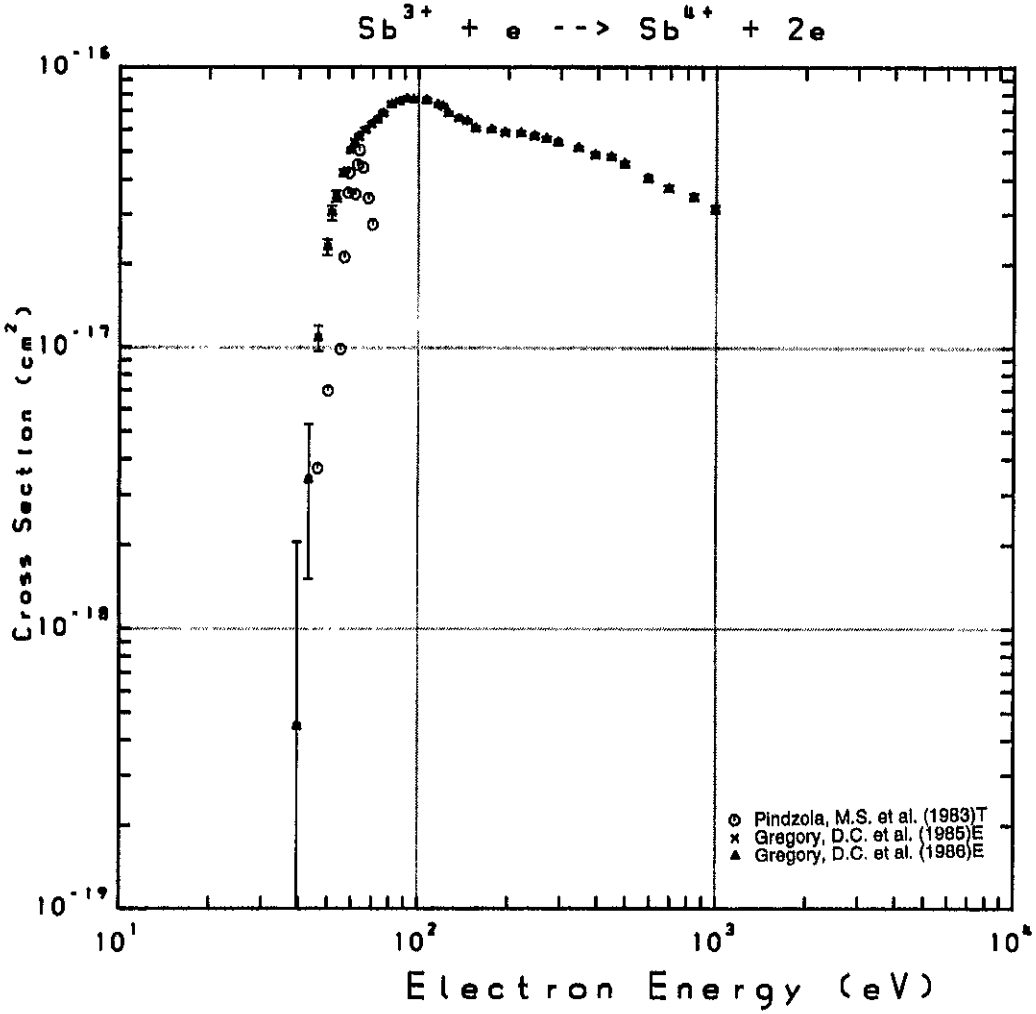

Fig. 337 $Sb^{3+} \rightarrow Sb^{4+}$

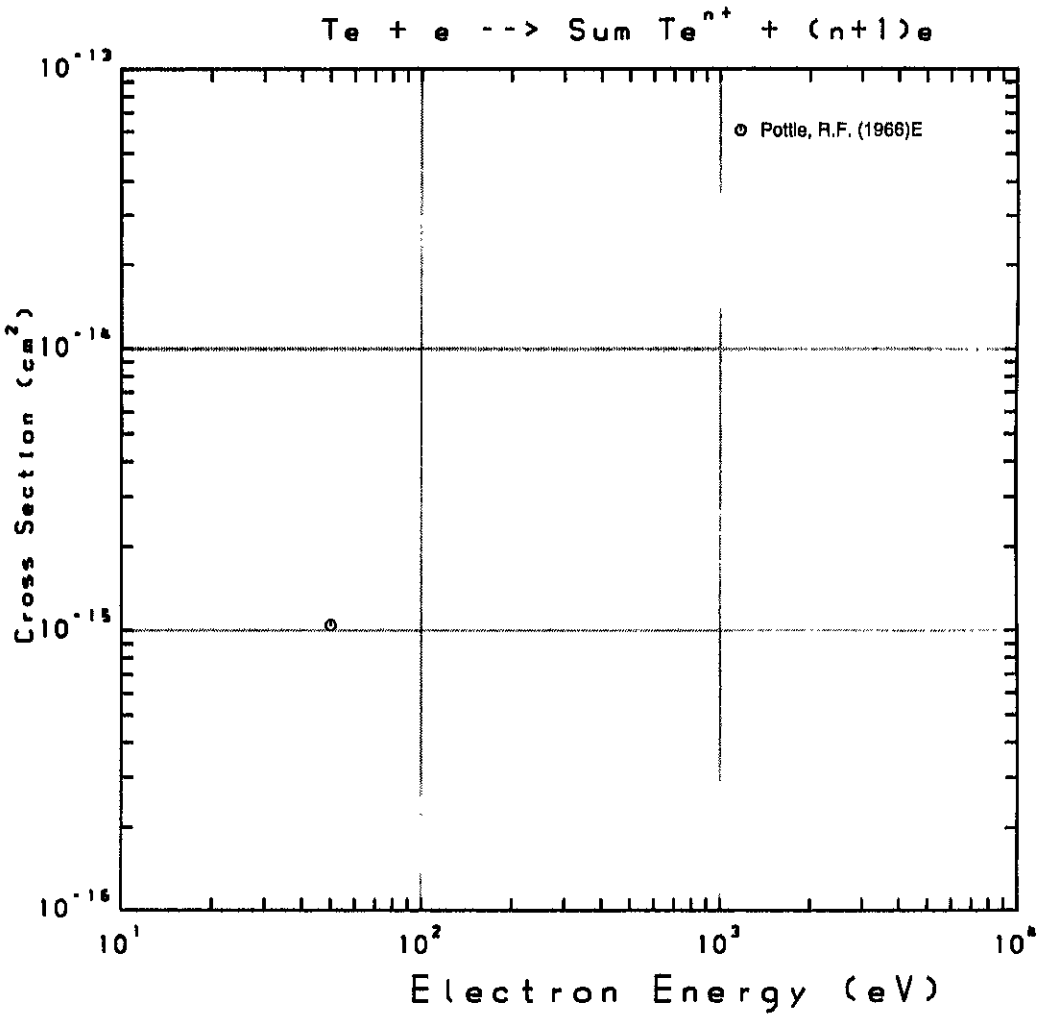

Fig. 338 $Te \rightarrow \Sigma Te^{n+}$

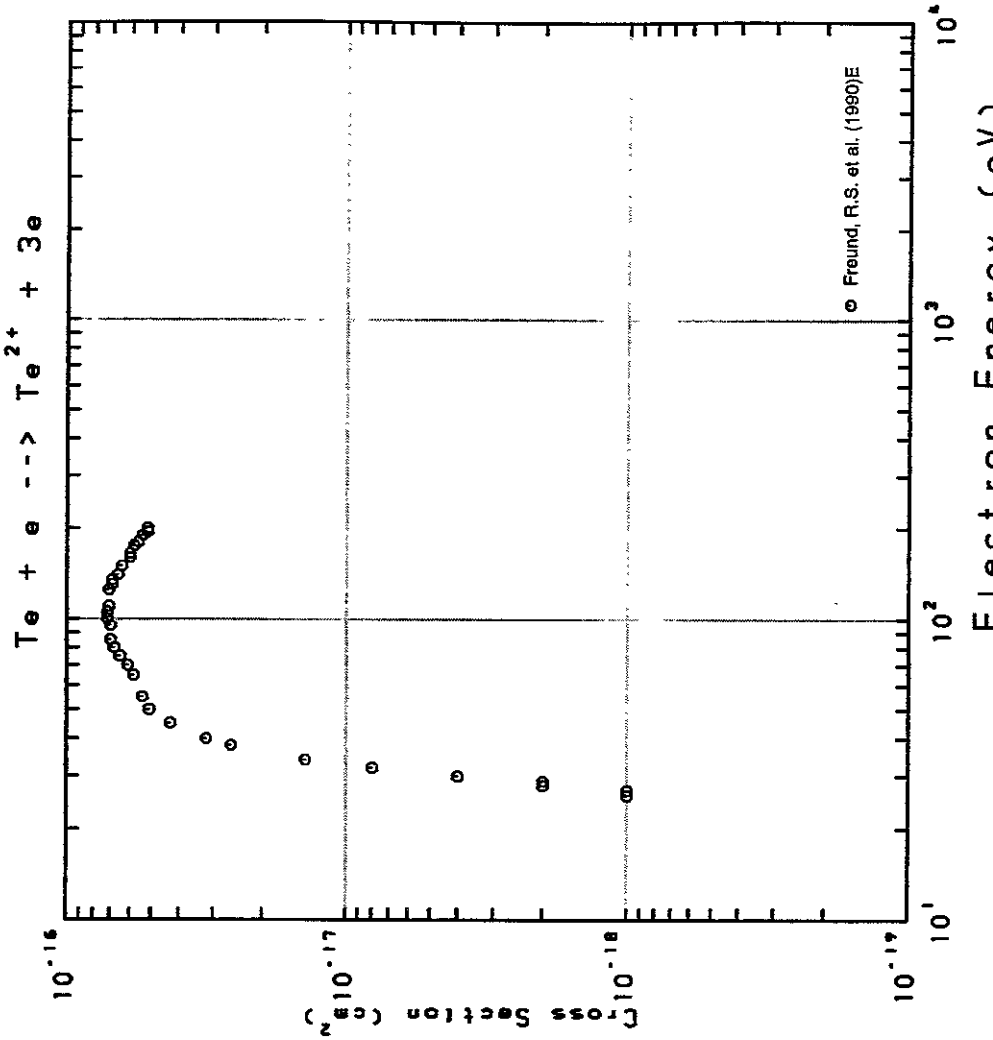

Fig. 340 Te → Te^{2+}

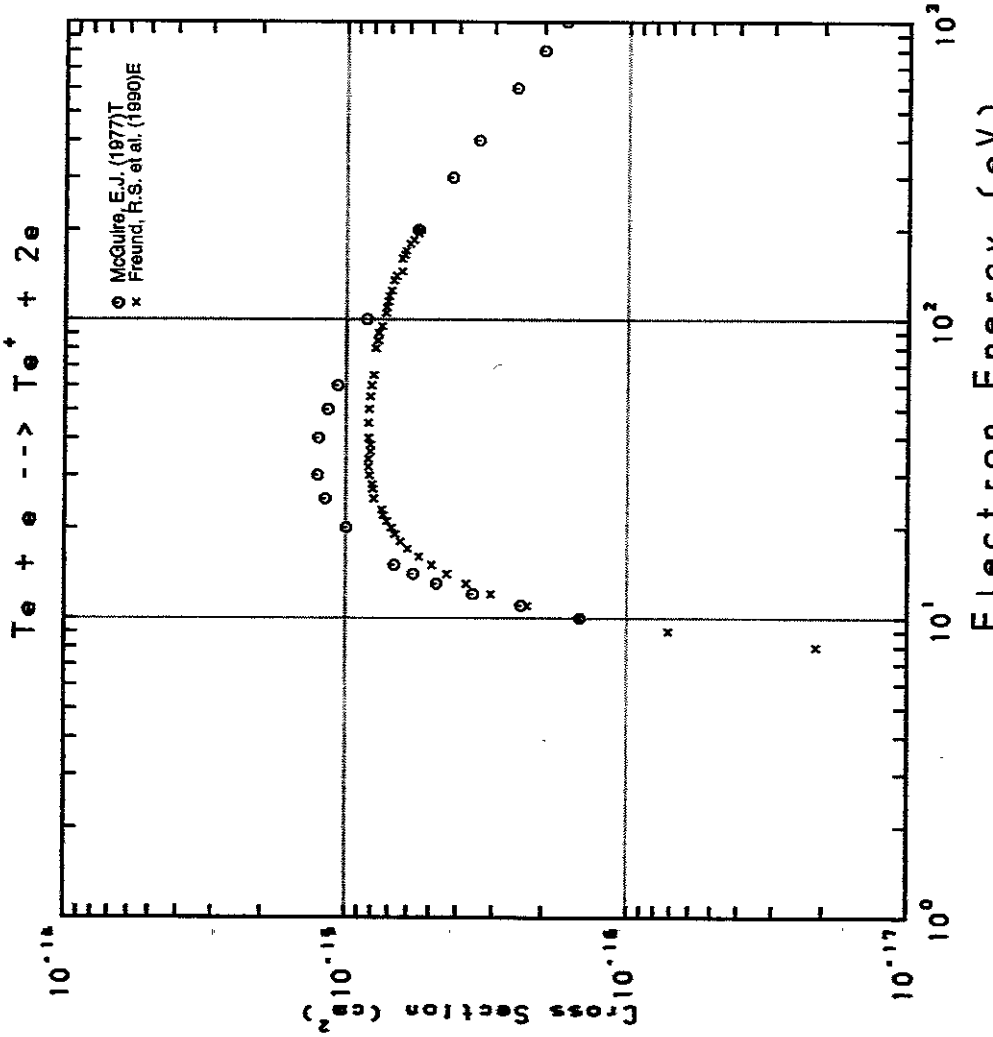

Fig. 339 Te → Te^{+}

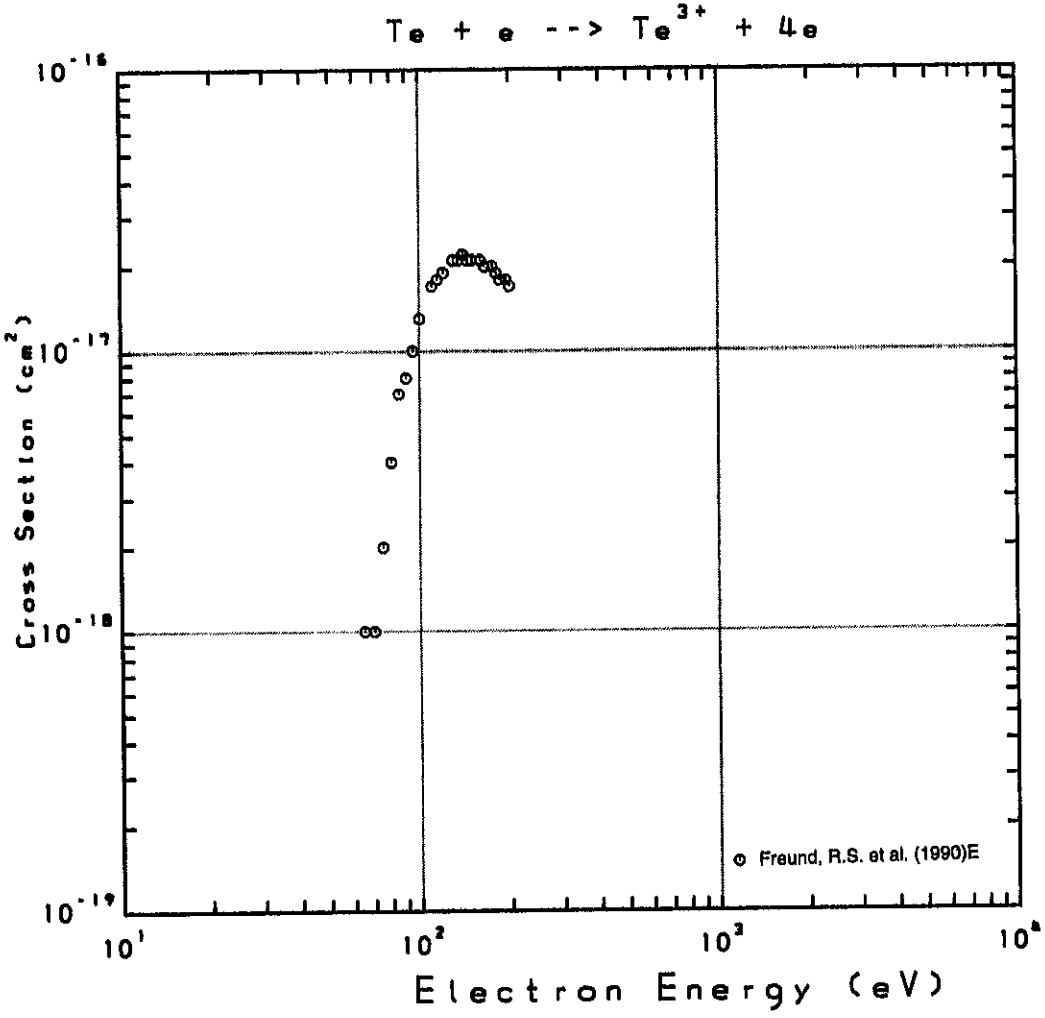

Fig. 341 Te → Te^{3+}

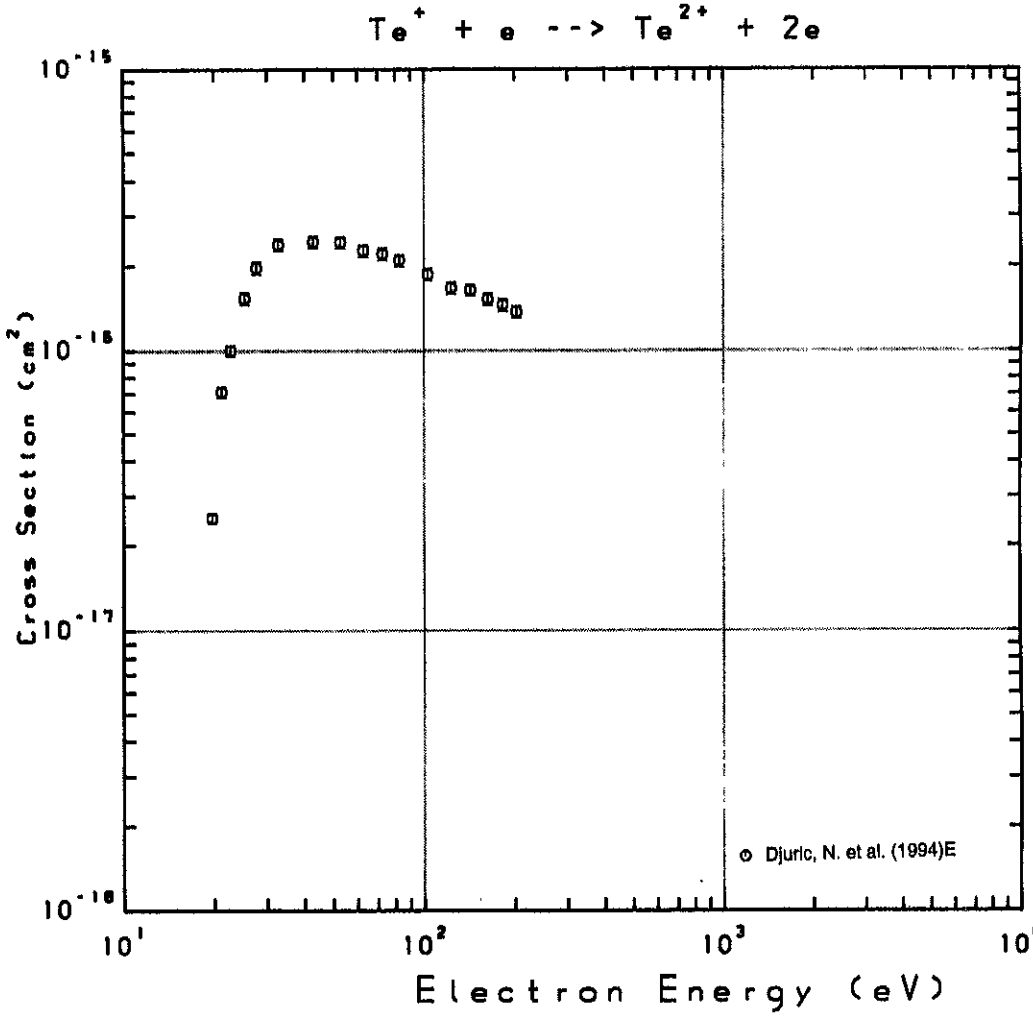

Fig. 342 Te^{+} → Te^{2+}

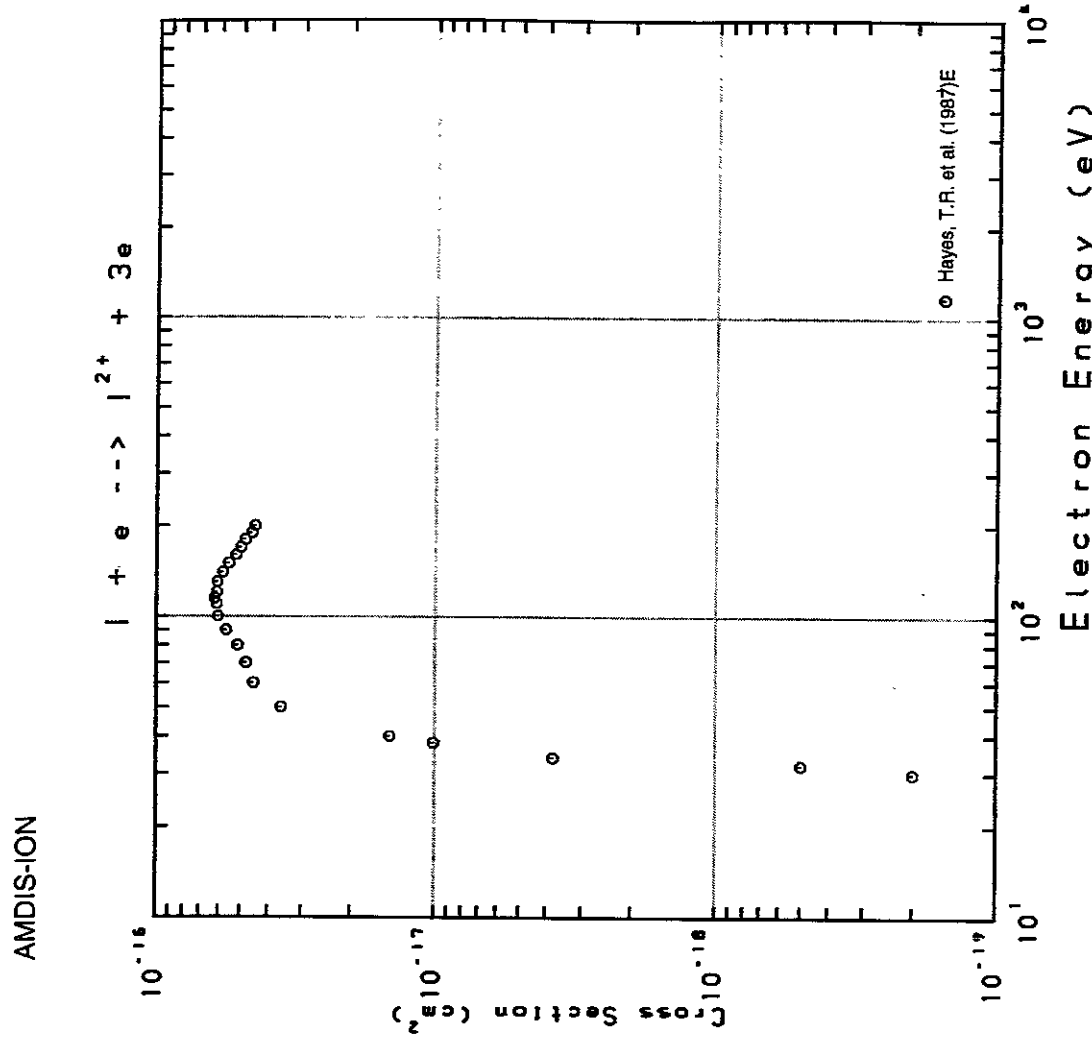

Fig. 343 $I \rightarrow I^+$

Fig. 344 $I \rightarrow I^{2+}$

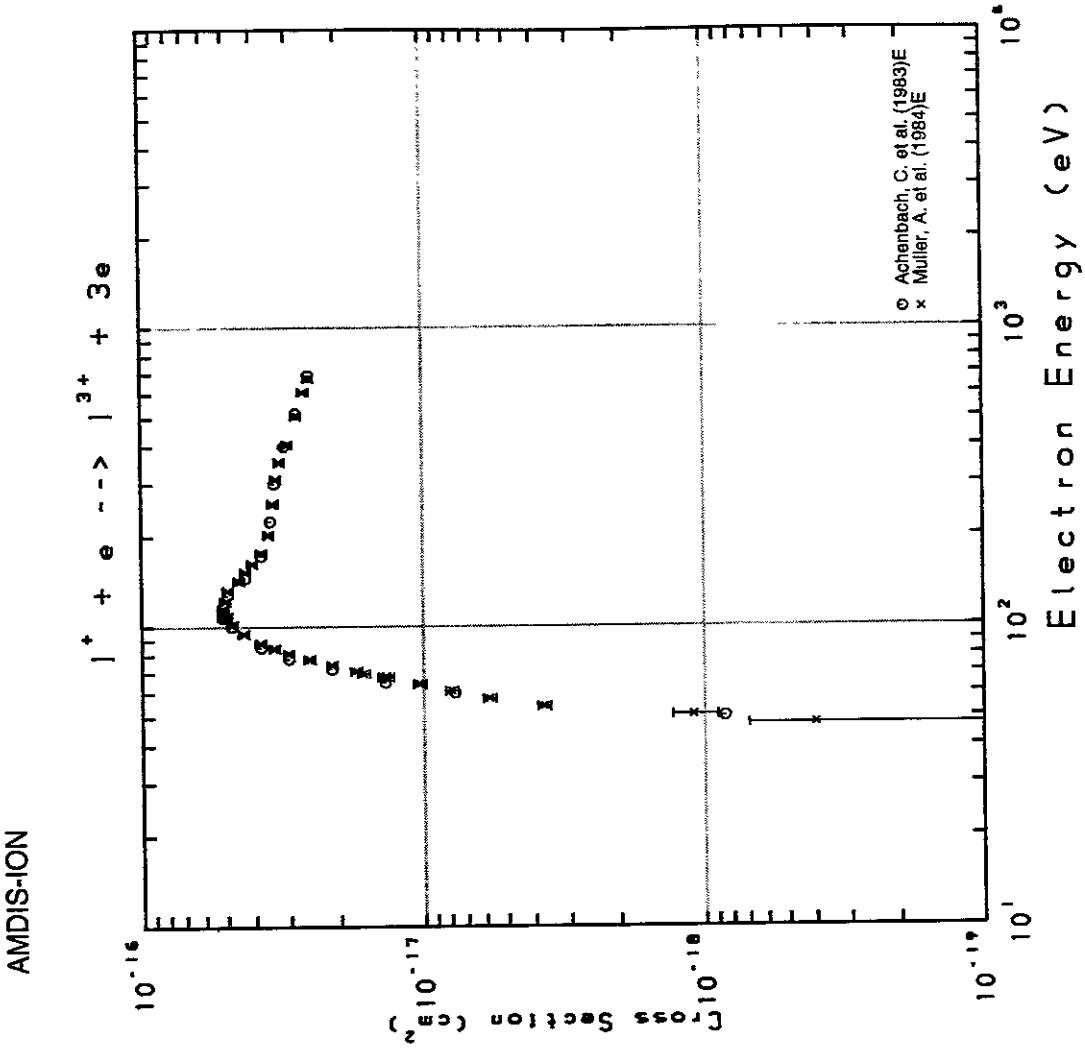

Fig. 345 $I \rightarrow I^{3+}$

Fig. 346 $I^{+} \rightarrow I^{3+}$

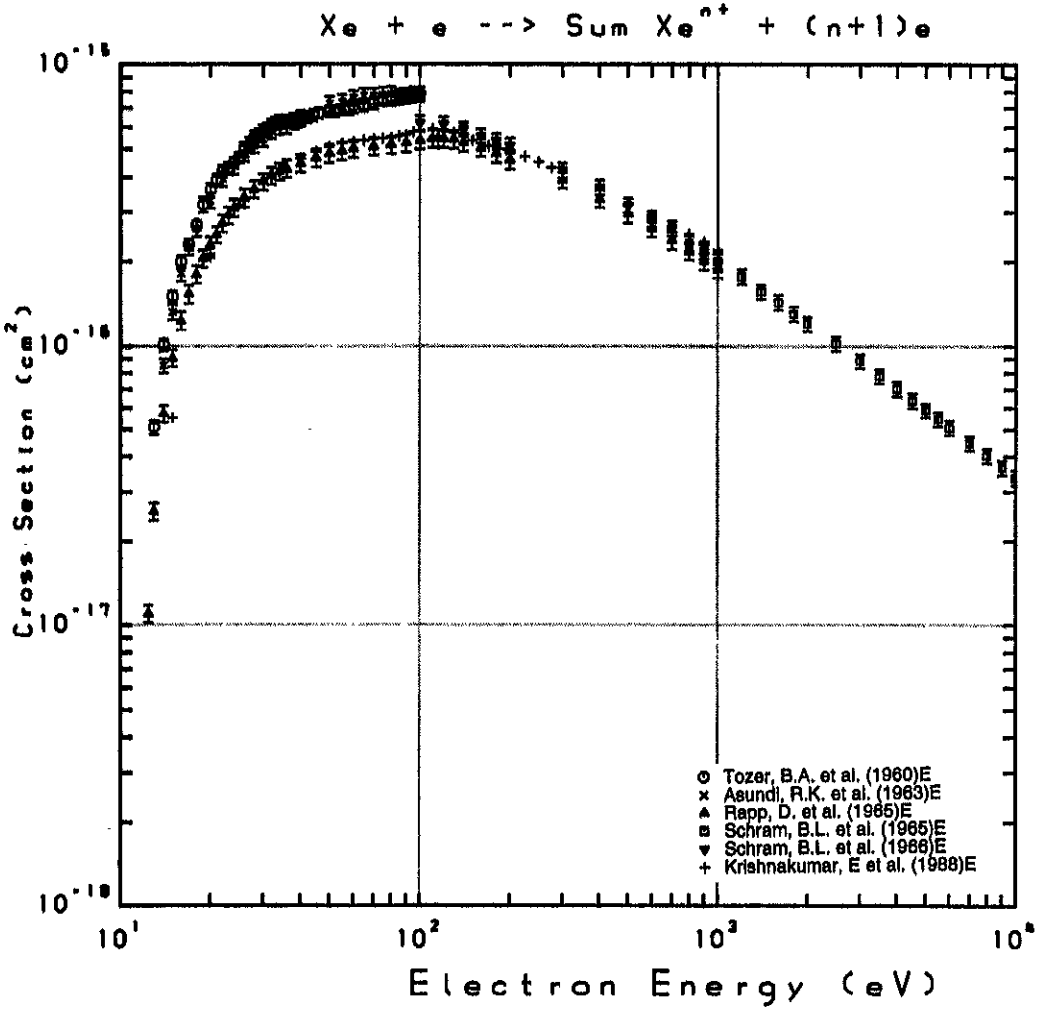

Fig. 347 $Xe \rightarrow \Sigma Xe^{n+}$

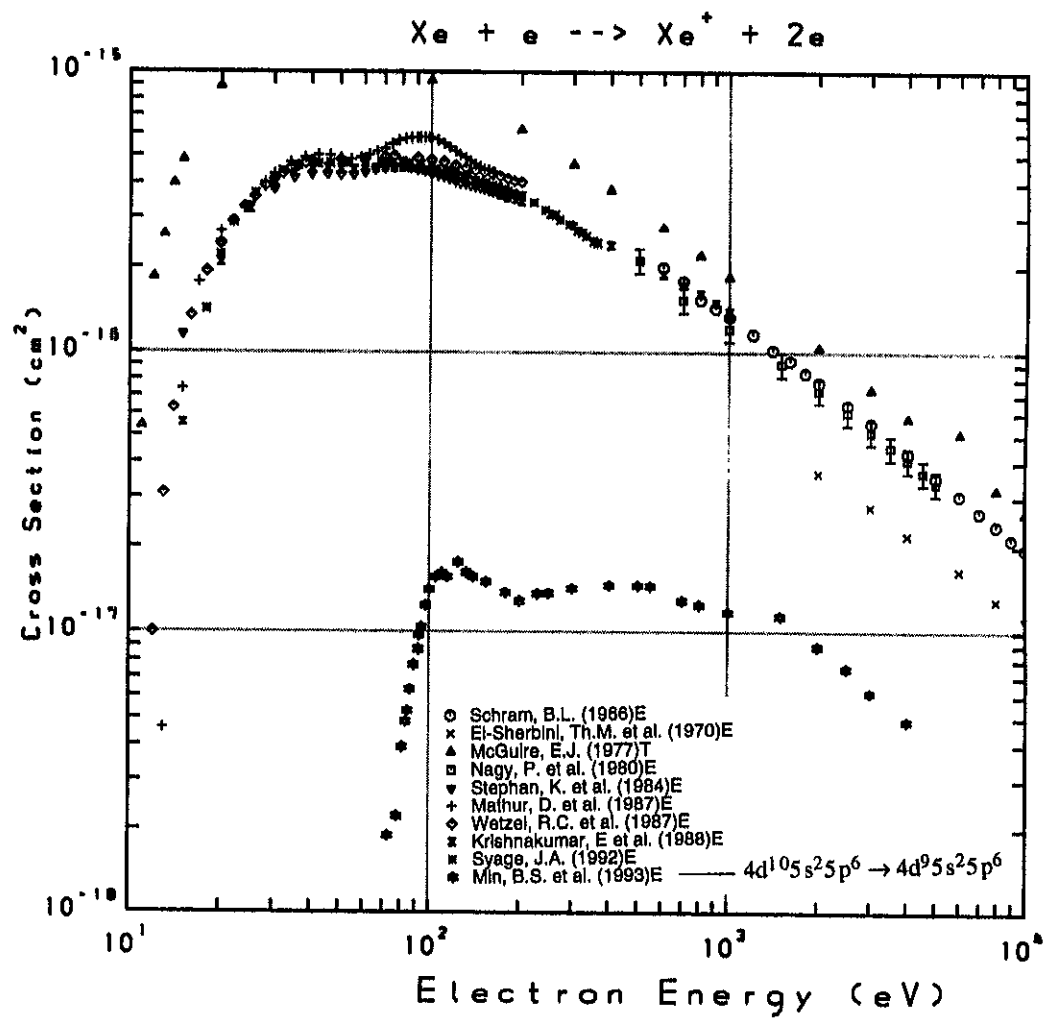

Fig. 348 $Xe \rightarrow Xe^{+}$

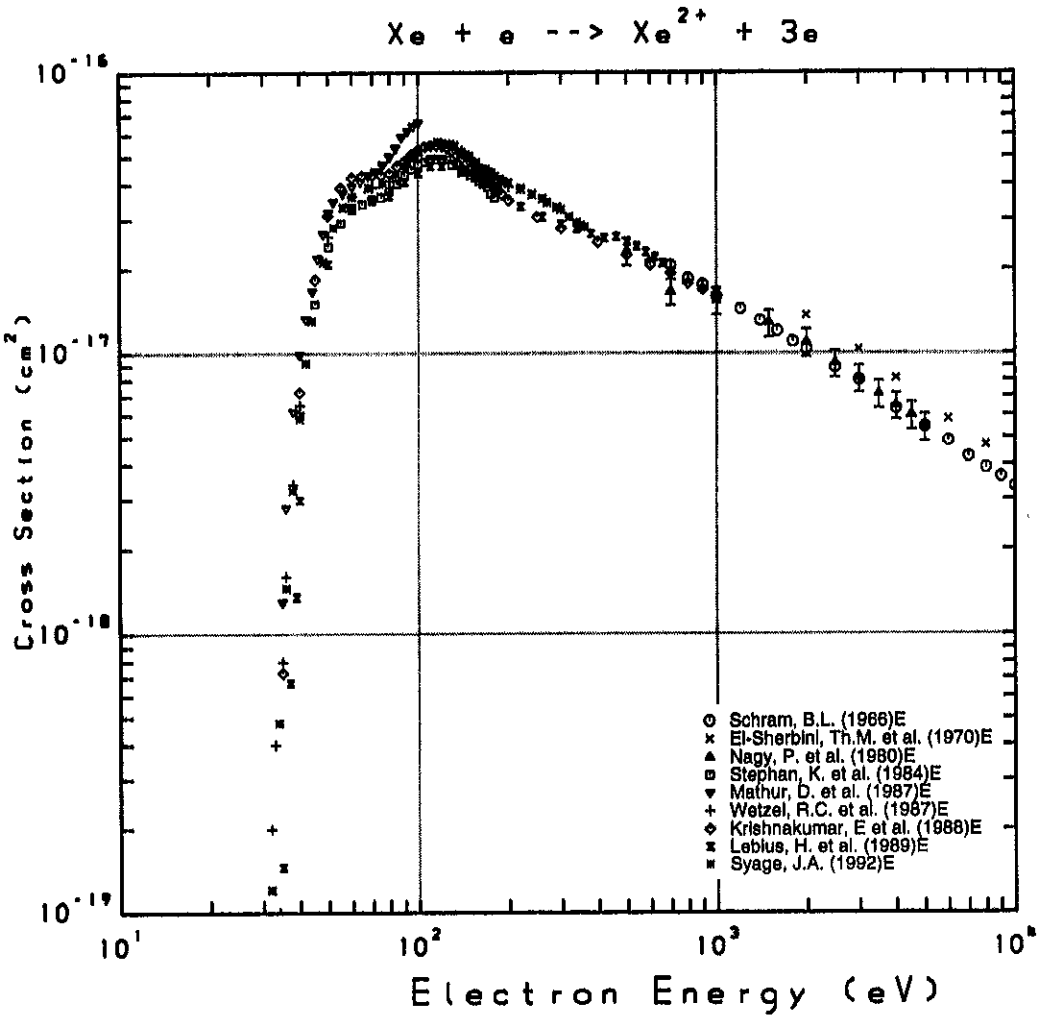

Fig. 349 Xe → Xe^{2+}

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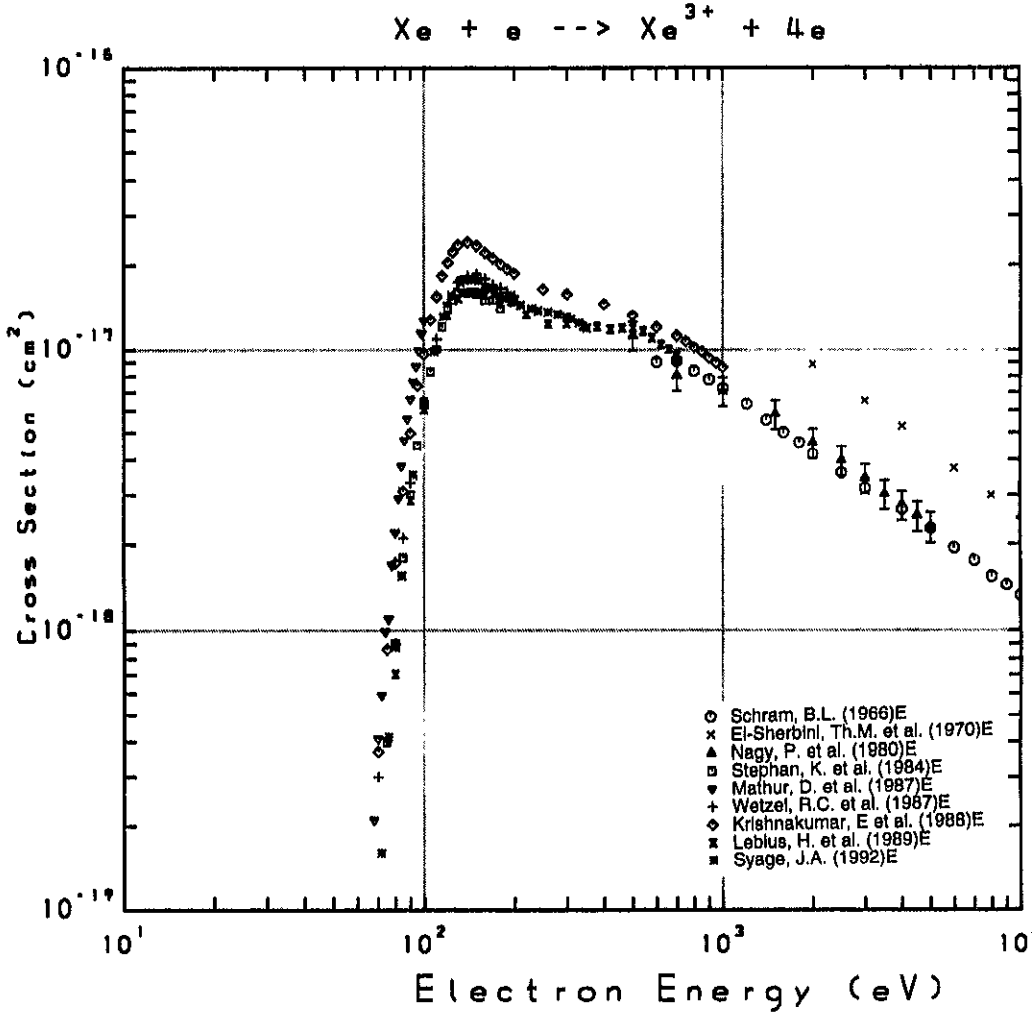

Fig. 350 Xe → Xe^{3+}

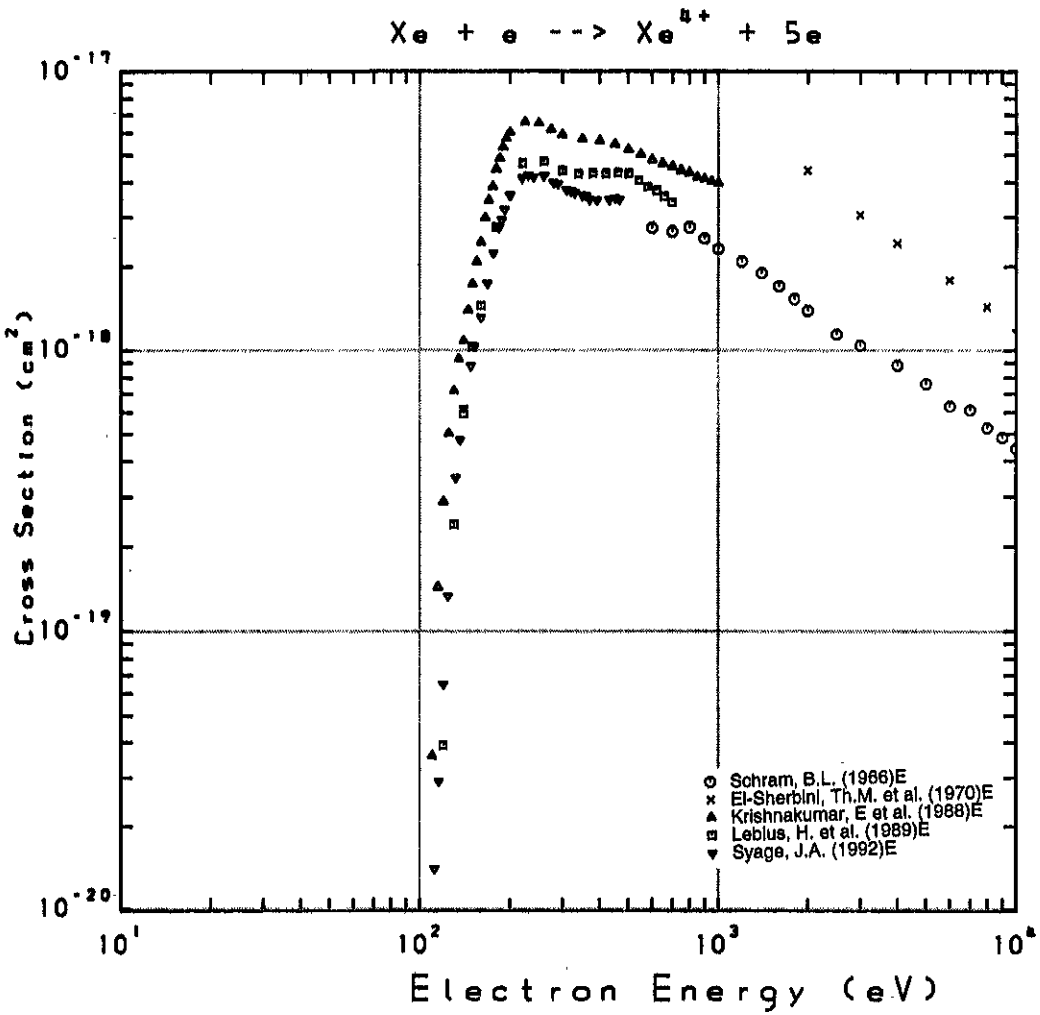

Fig. 351 Xe → Xe^{4+}

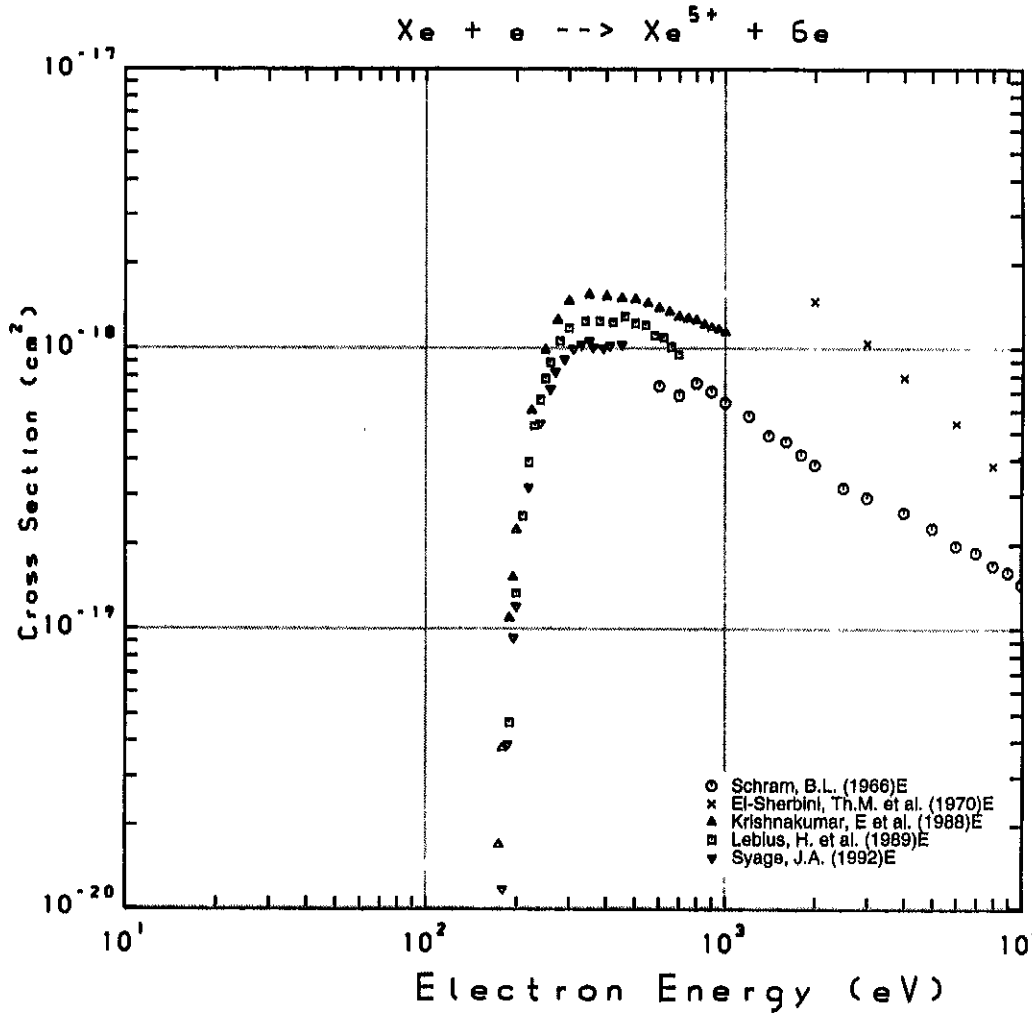

Fig. 352 Xe → Xe^{5+}

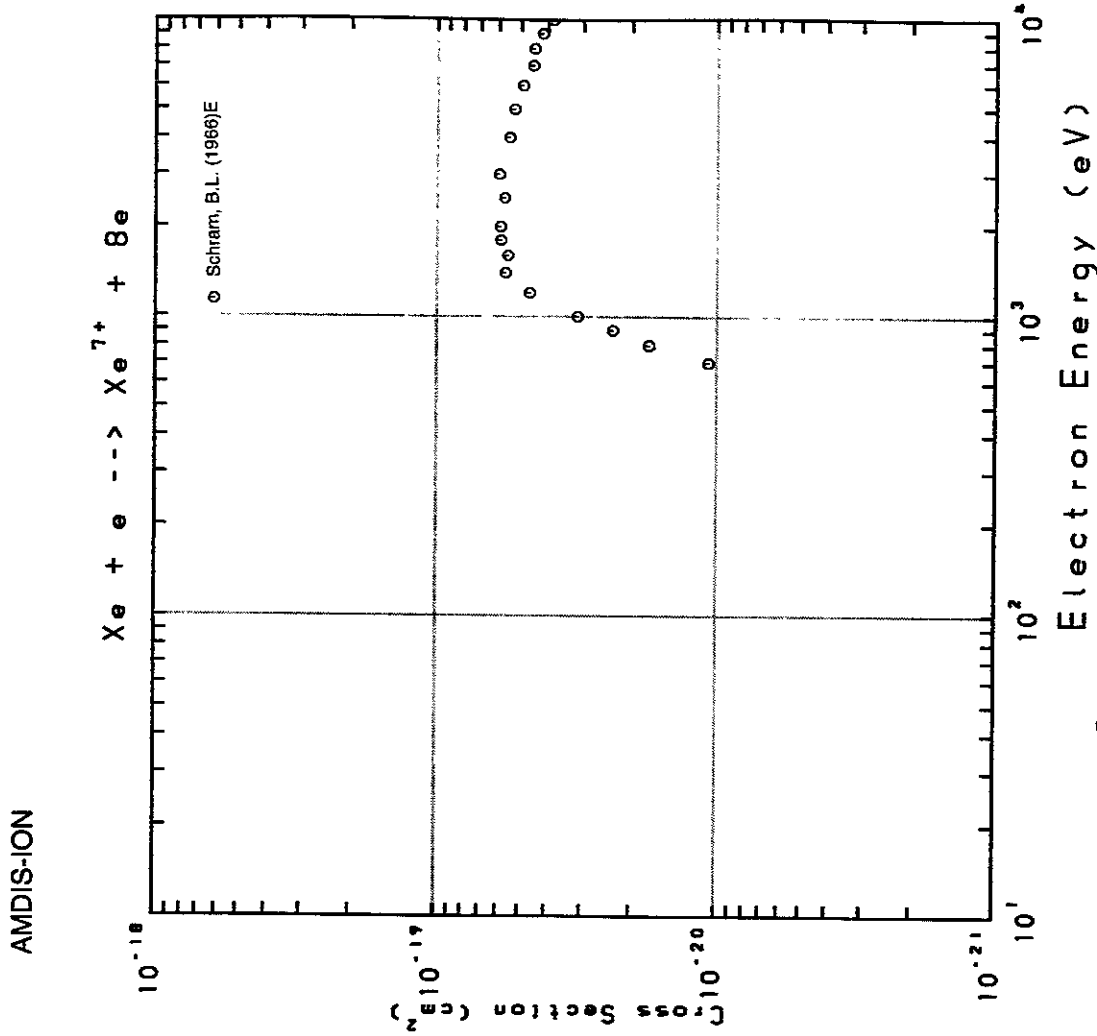

Fig. 354 Xe → Xe^{7+}

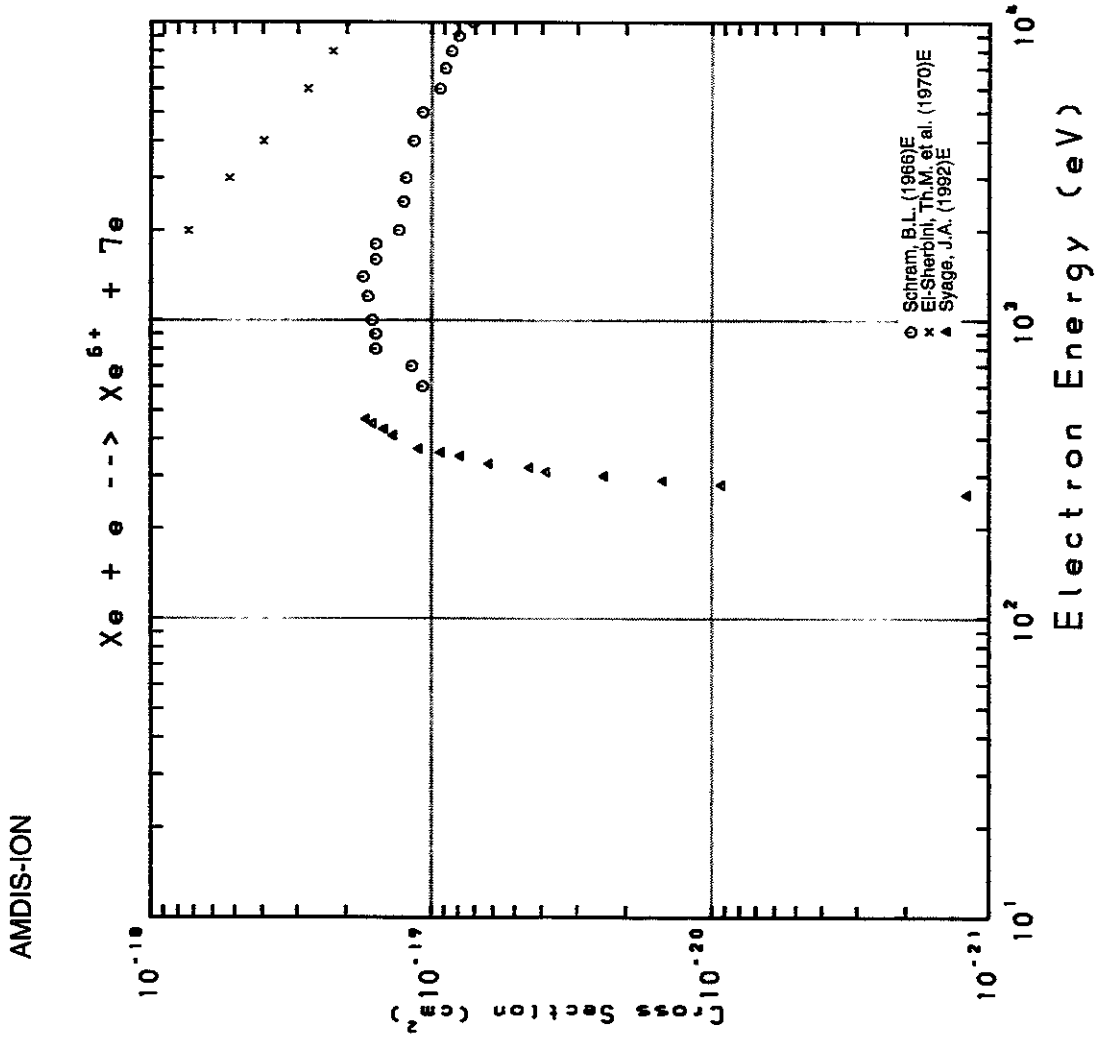

Fig. 353 Xe → Xe^{6+}

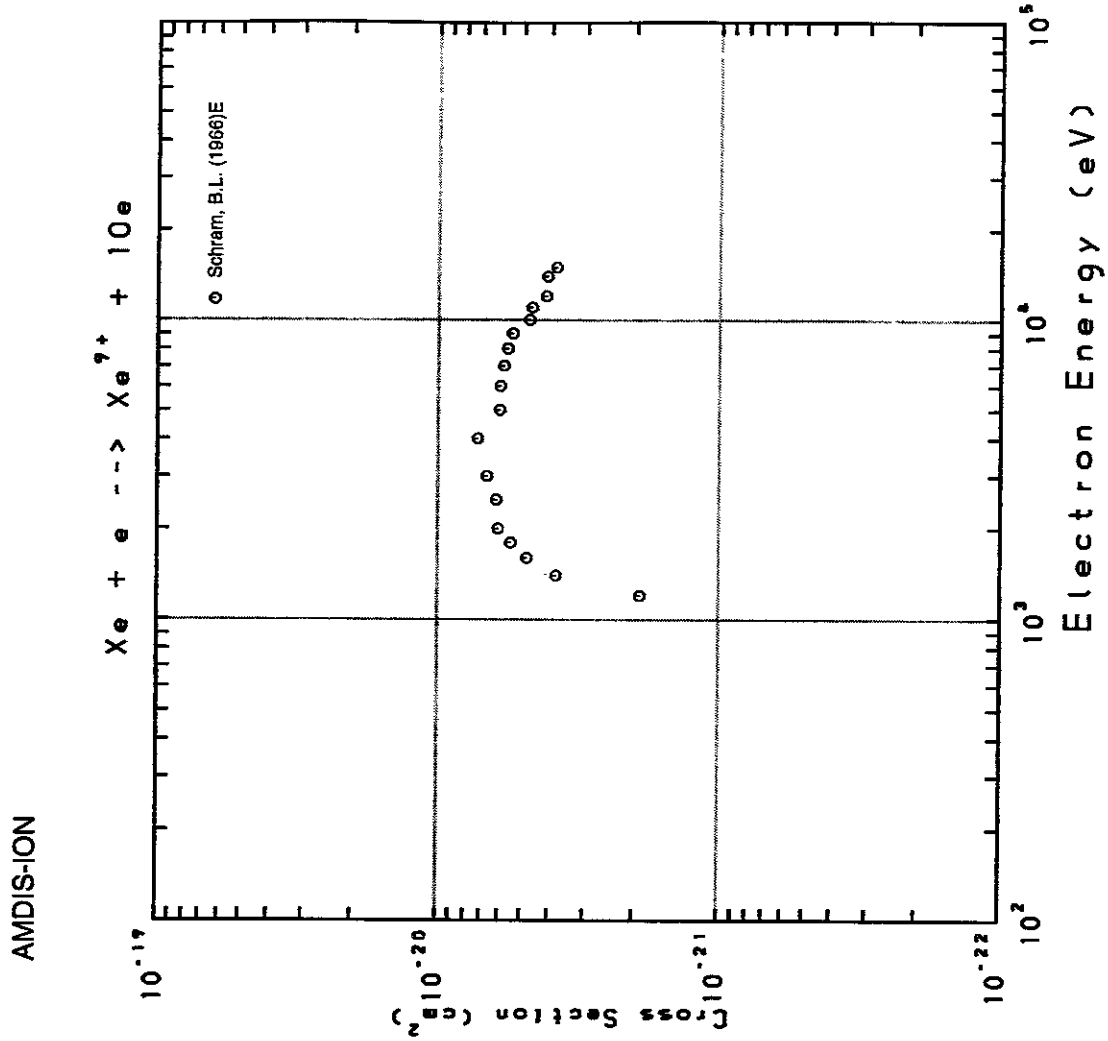

Fig. 356 Xe → Xe^{9+}

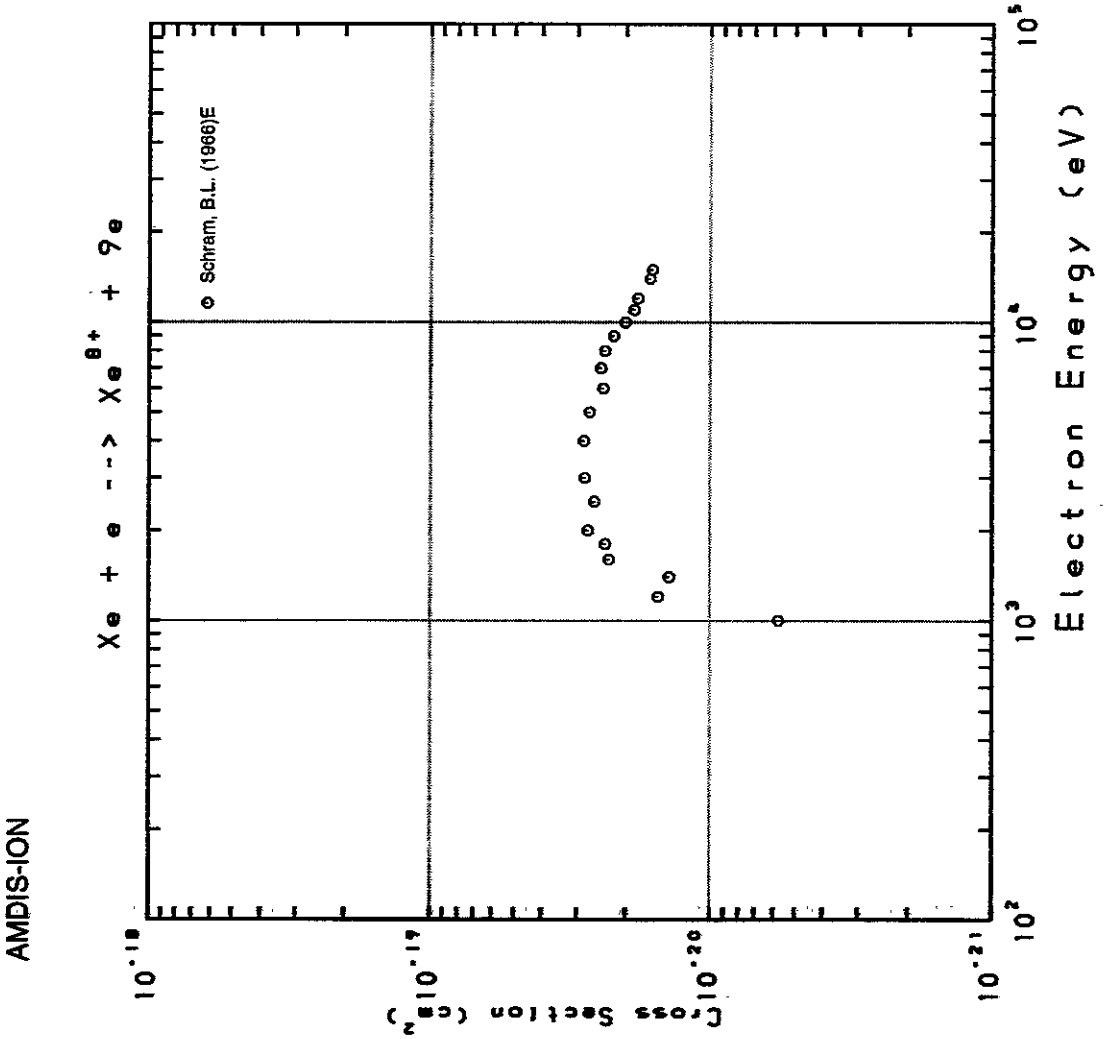

Fig. 355 Xe → Xe^{8+}

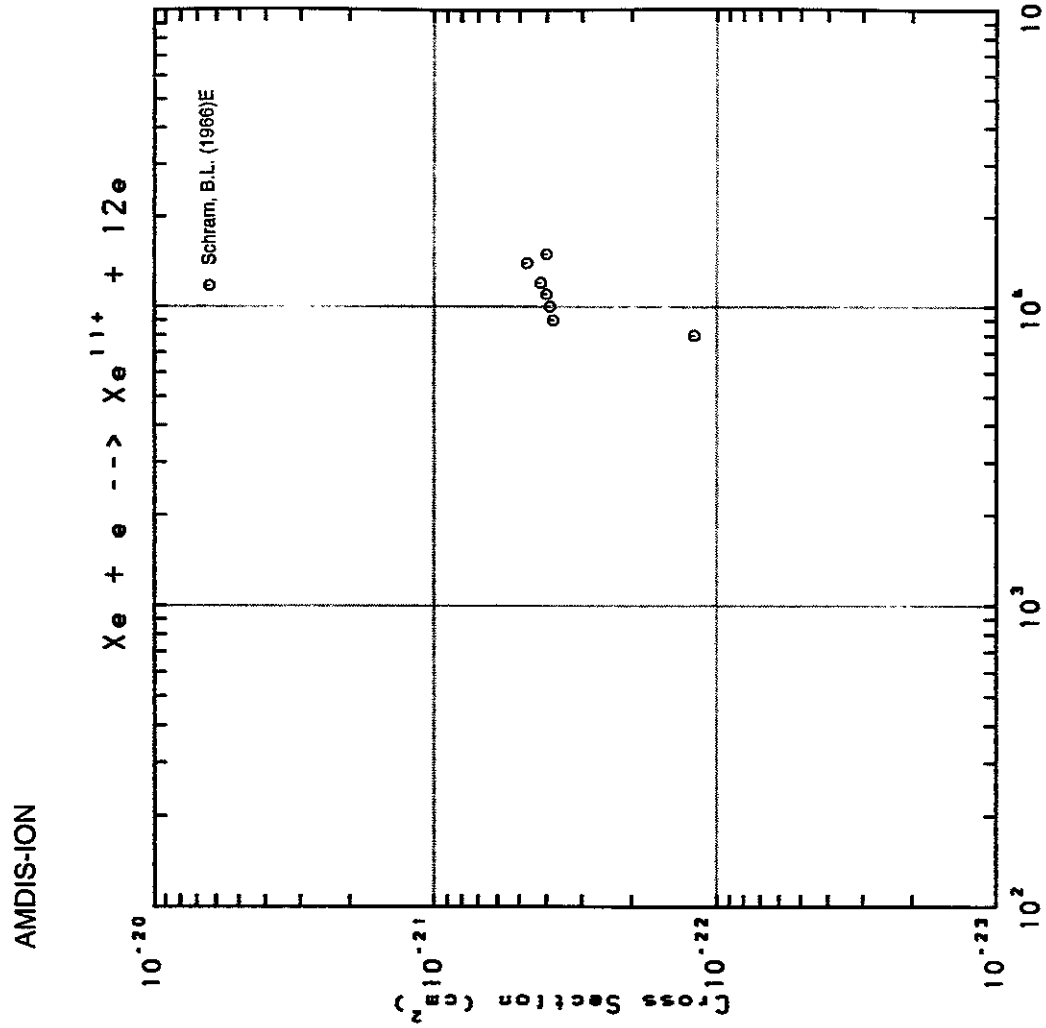

Fig. 358 Xe → Xe^{11+}

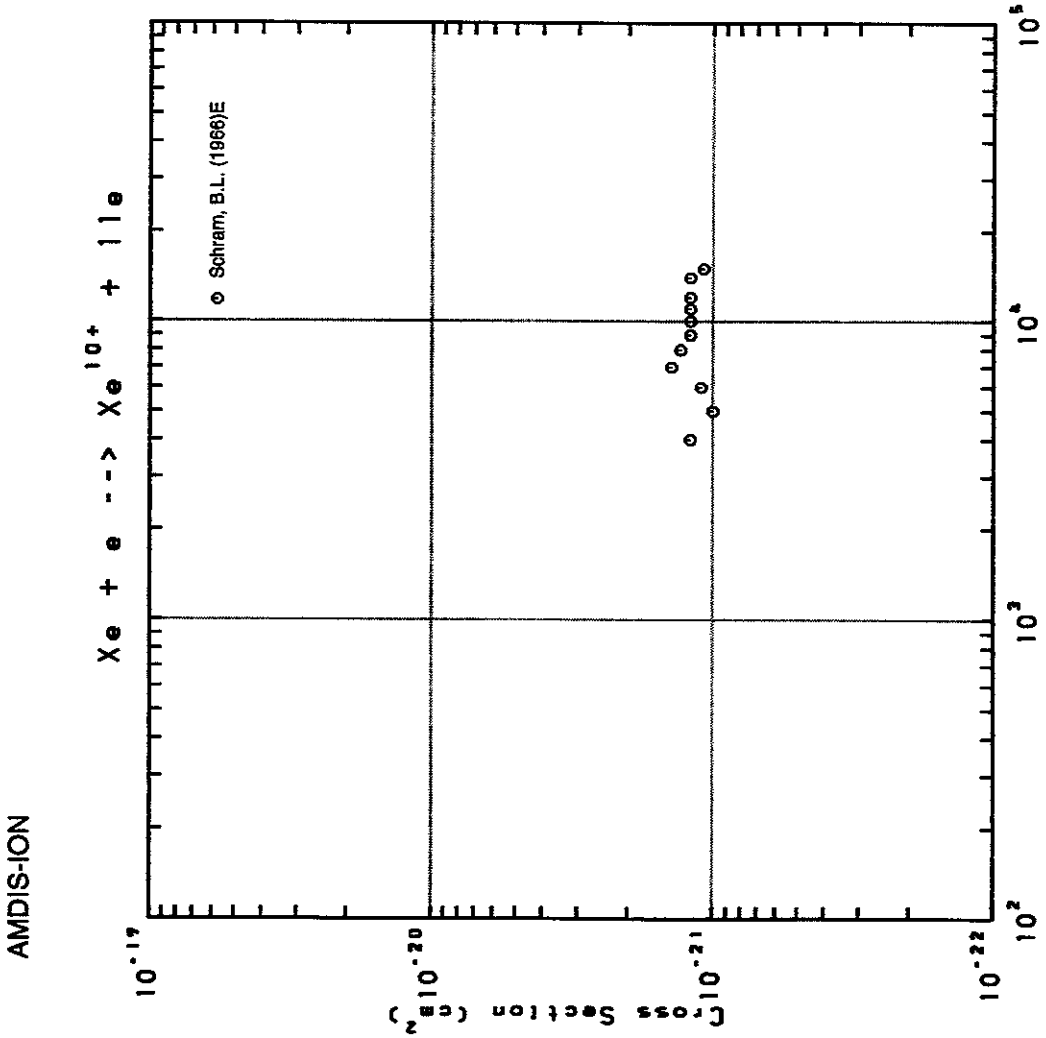

Fig. 357 Xe → Xe^{10+}

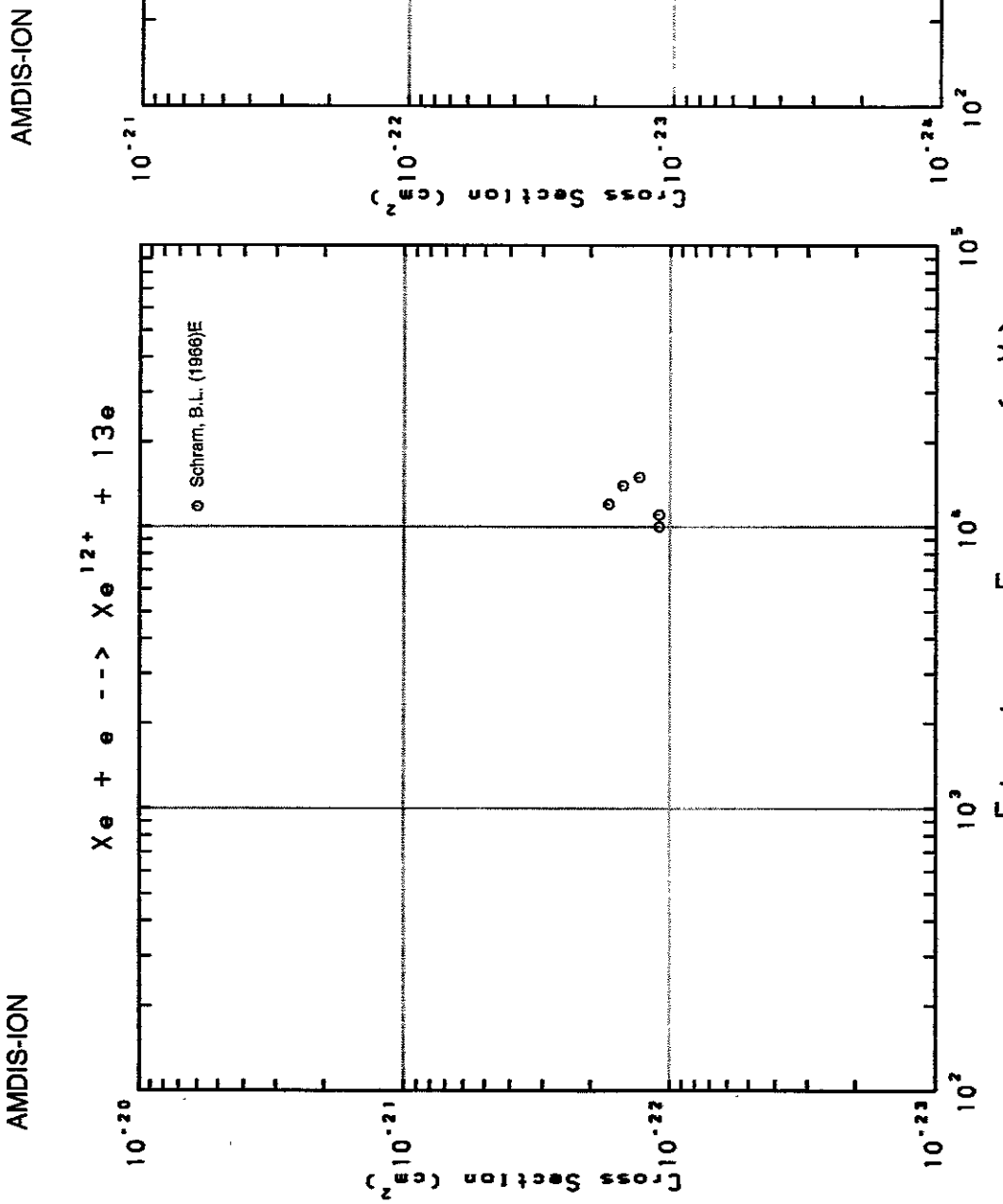

Fig. 359 Xe → Xe^{12+}

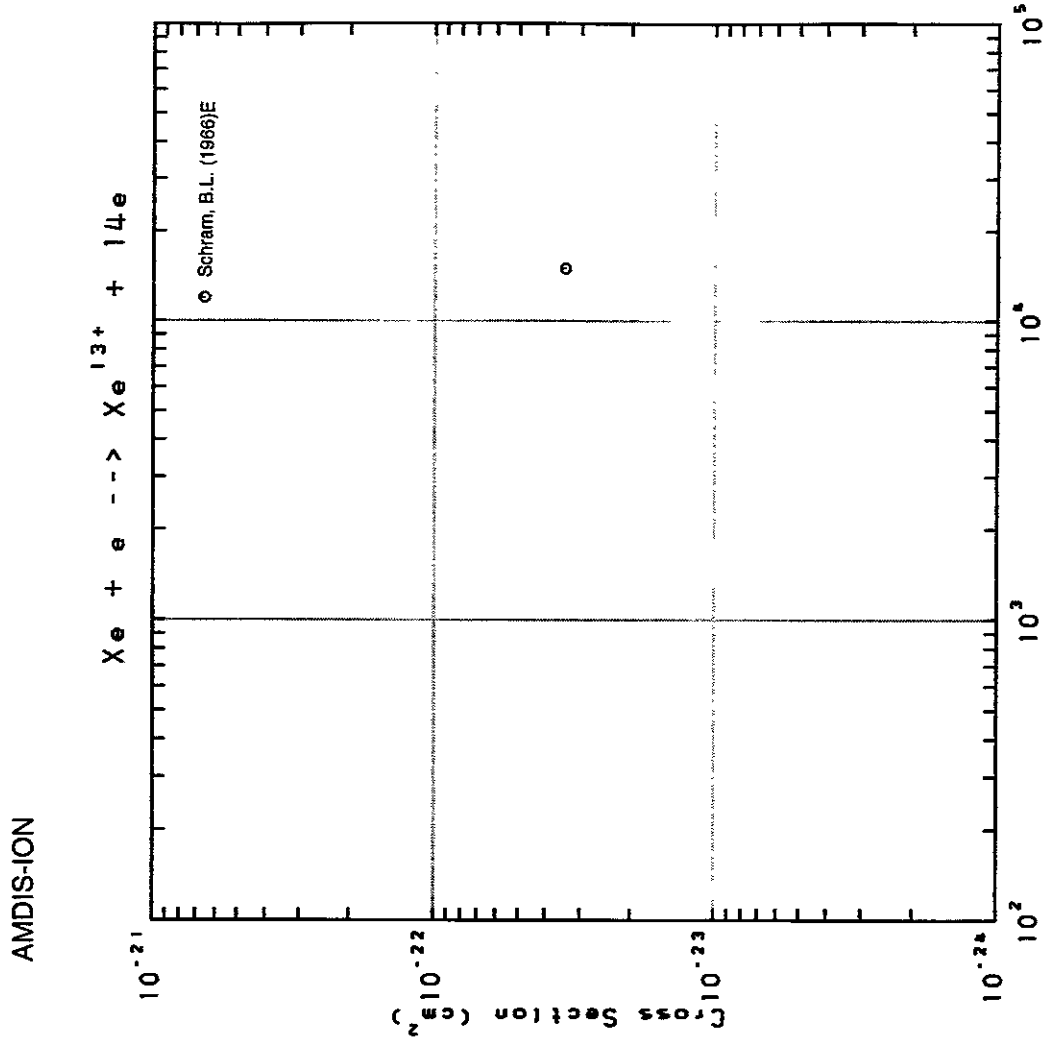

Fig. 360 Xe → Xe^{13+}

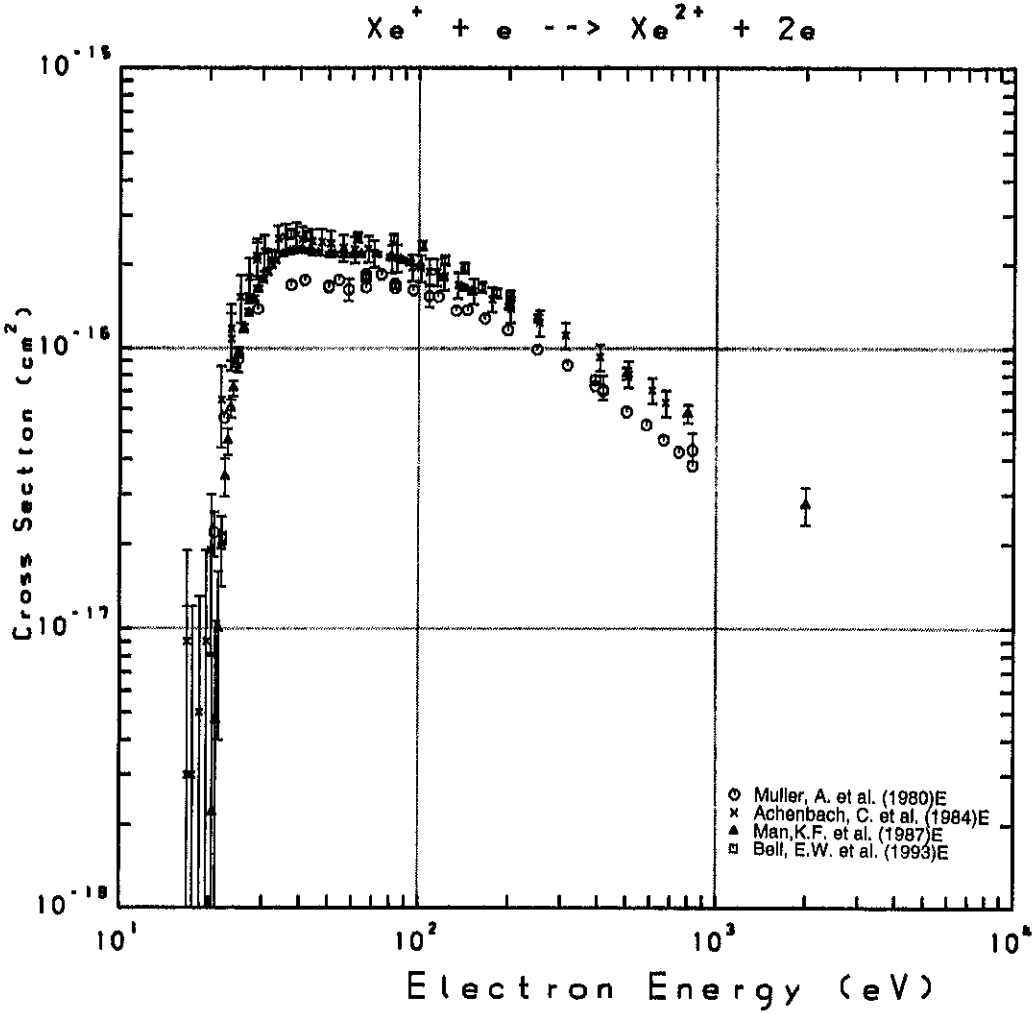

Fig. 361 $Xe^+ \rightarrow Xe^{2+}$

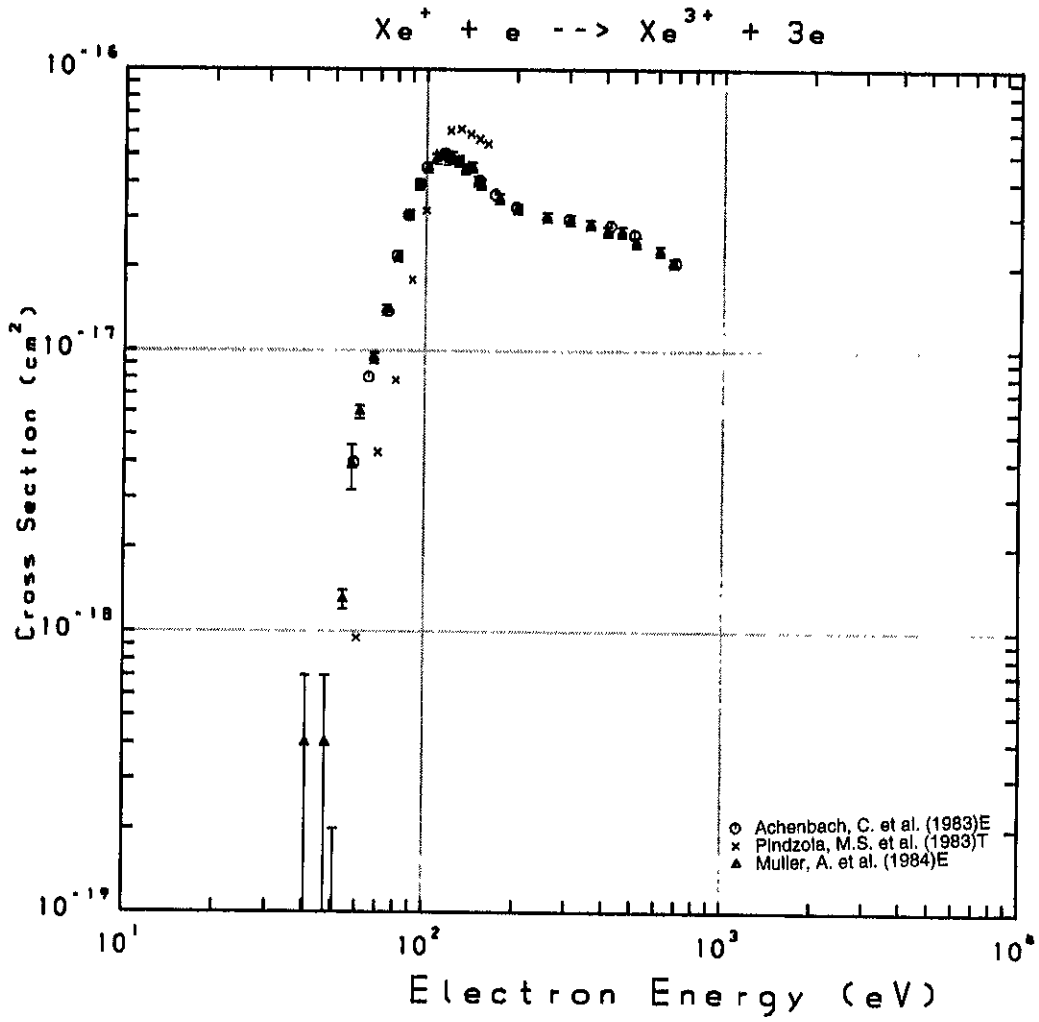

Fig. 362 $Xe^+ \rightarrow Xe^{3+}$

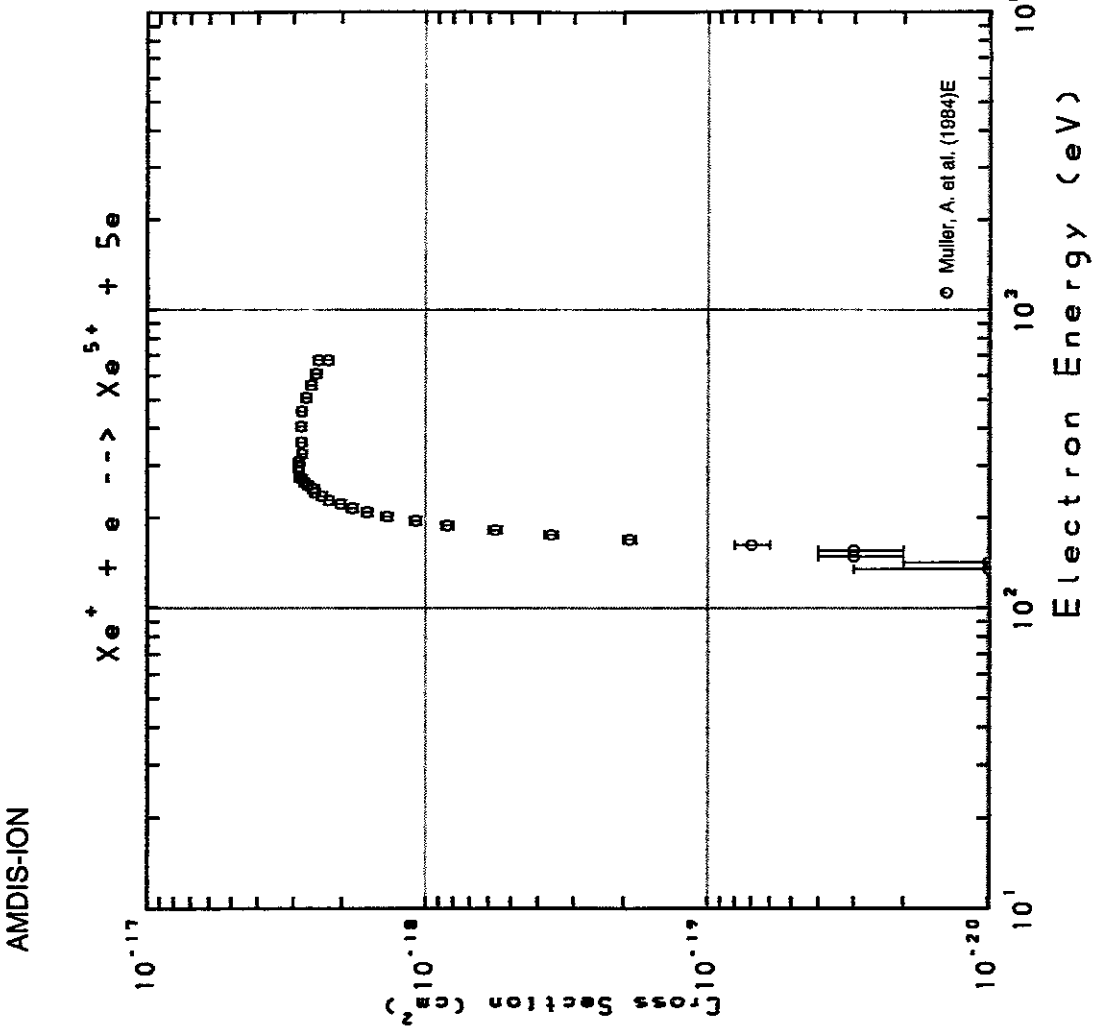

Fig. 364 $Xe^{+} \rightarrow Xe^{5+}$

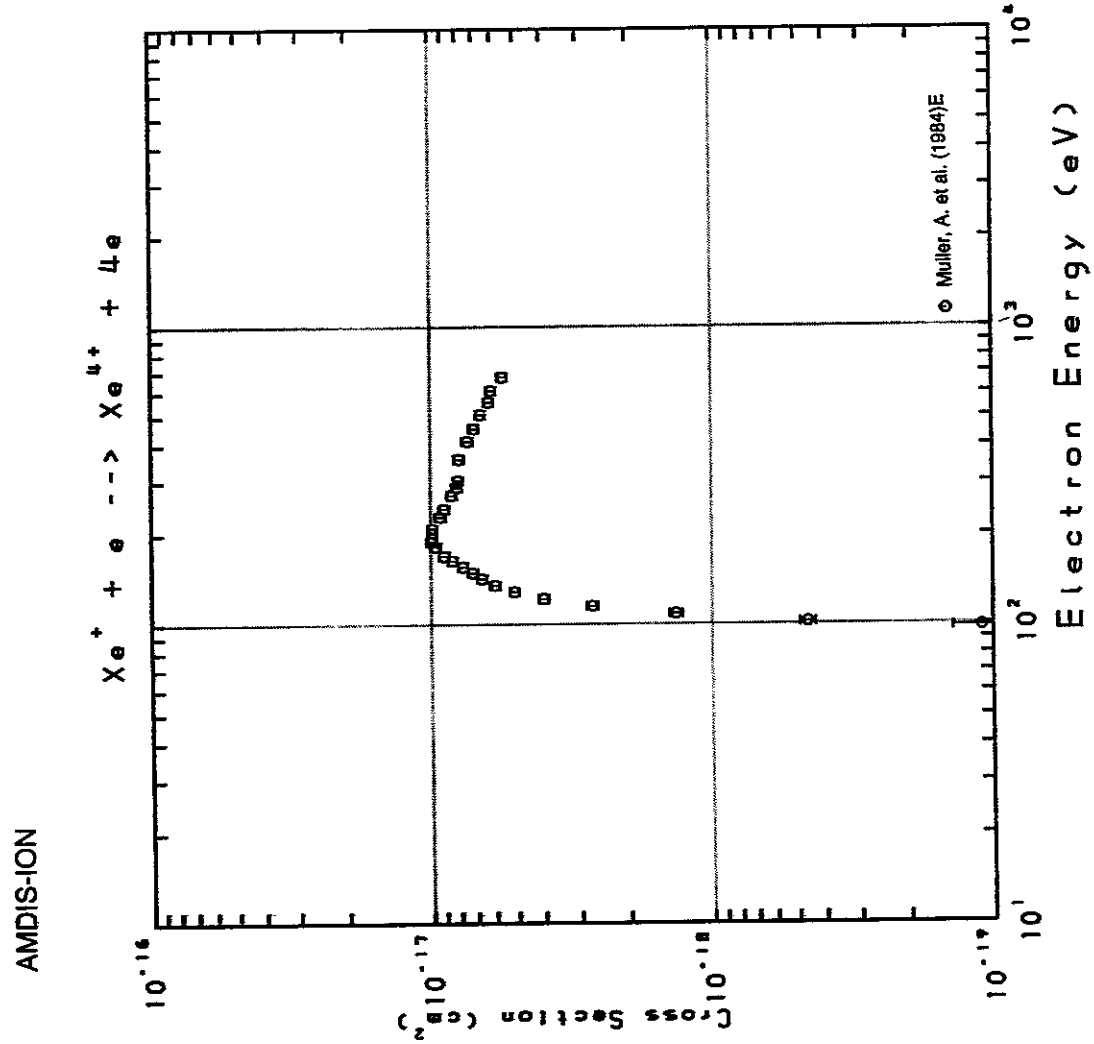

Fig. 363 $Xe^{+} \rightarrow Xe^{4+}$

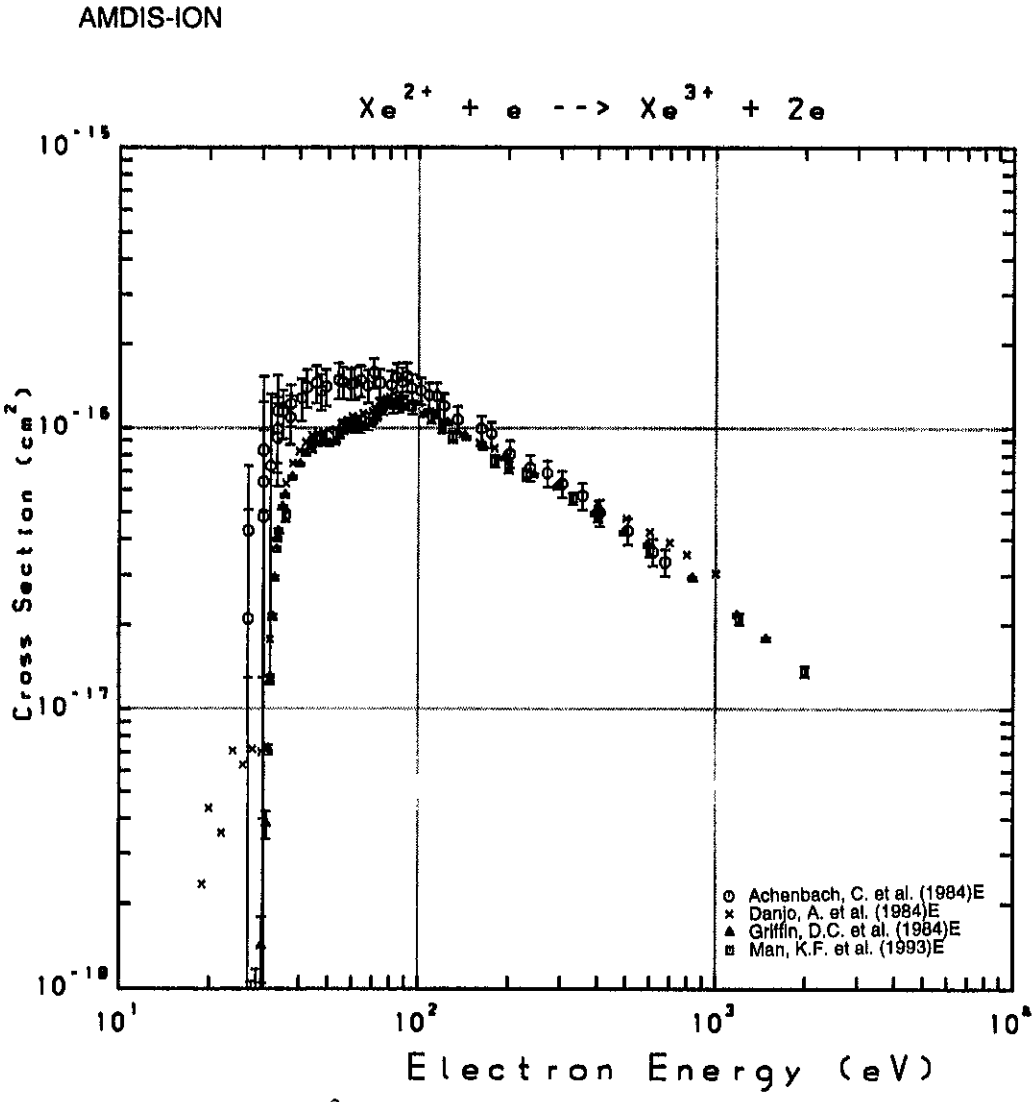

Fig. 365 $Xe^{2+} \rightarrow Xe^{3+}$

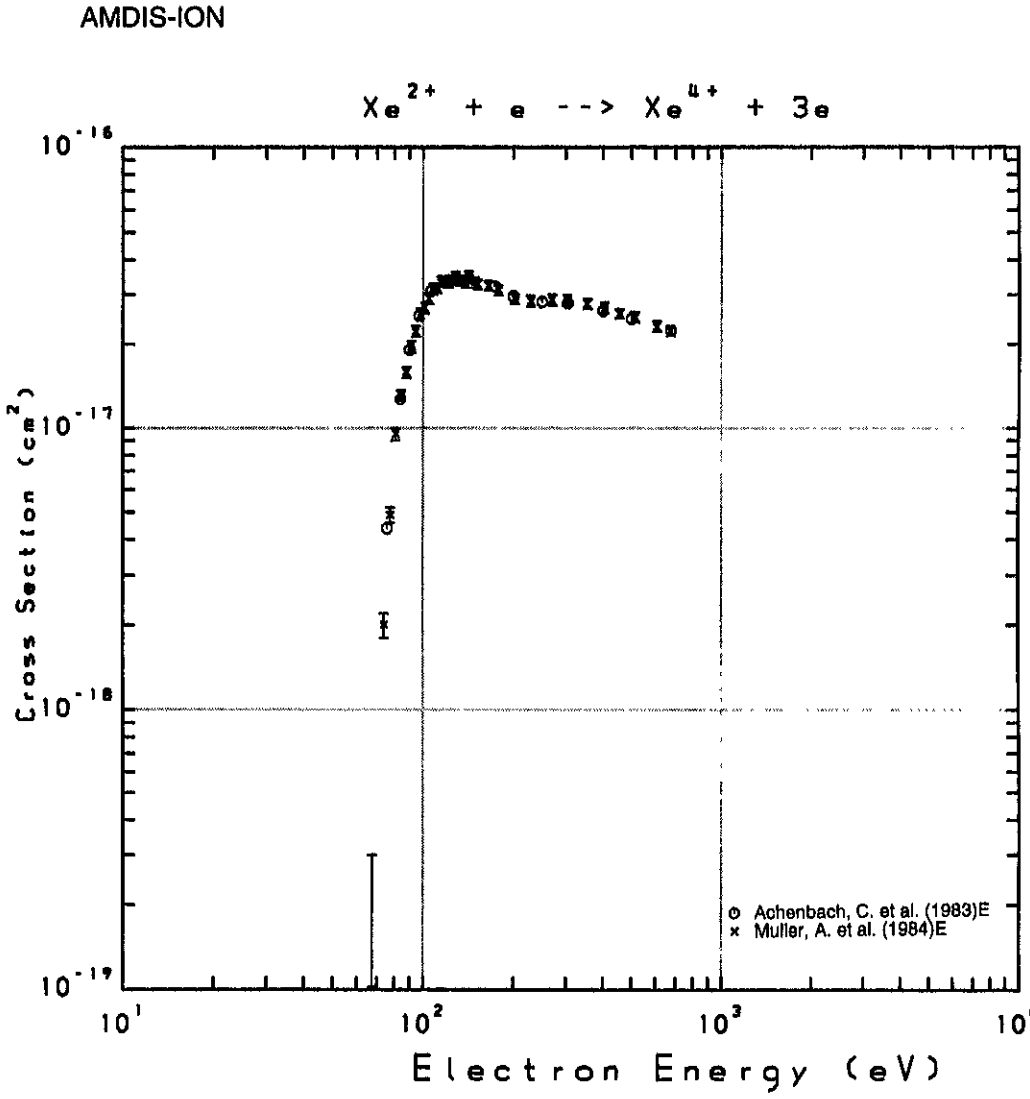

Fig. 366 $Xe^{2+} \rightarrow Xe^{4+}$

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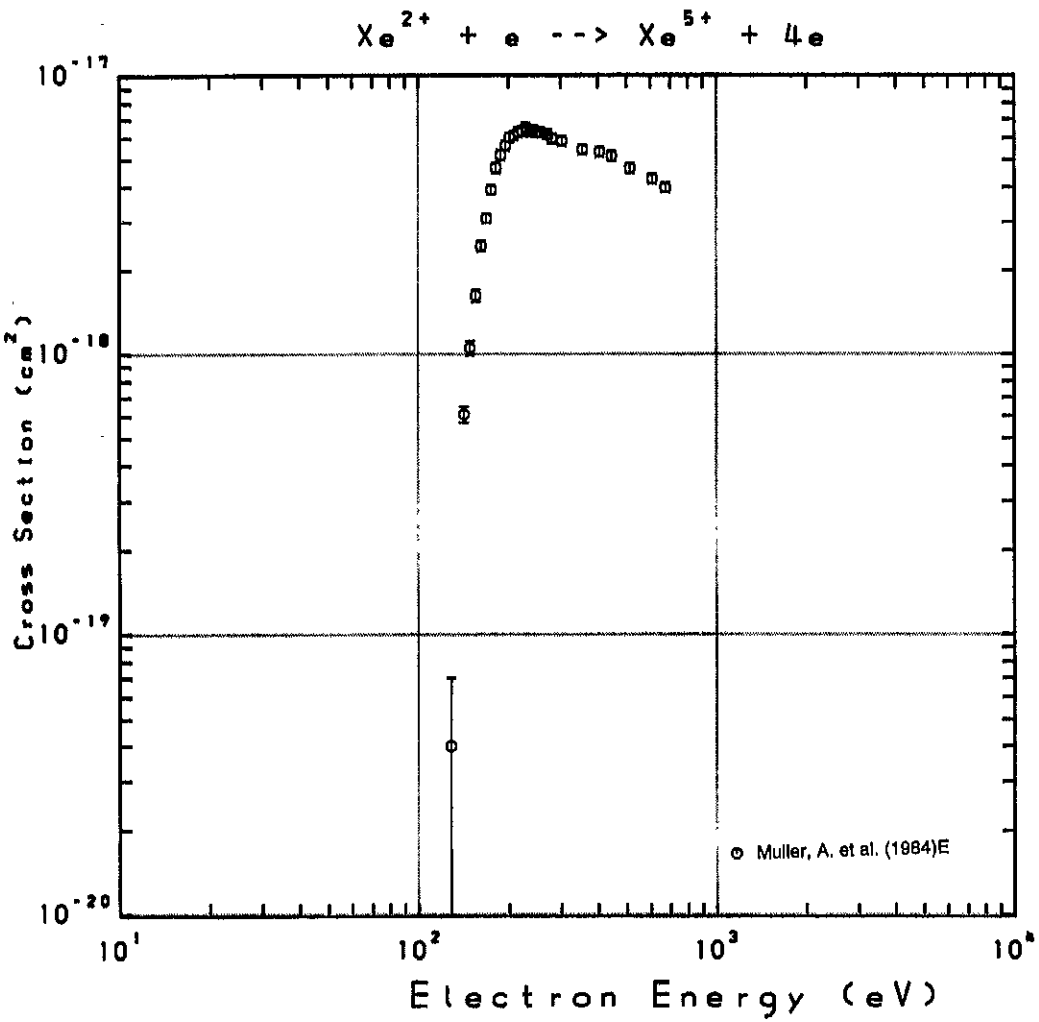

Fig. 367 $Xe^{2+} \rightarrow Xe^{5+}$

AMDIS-ION

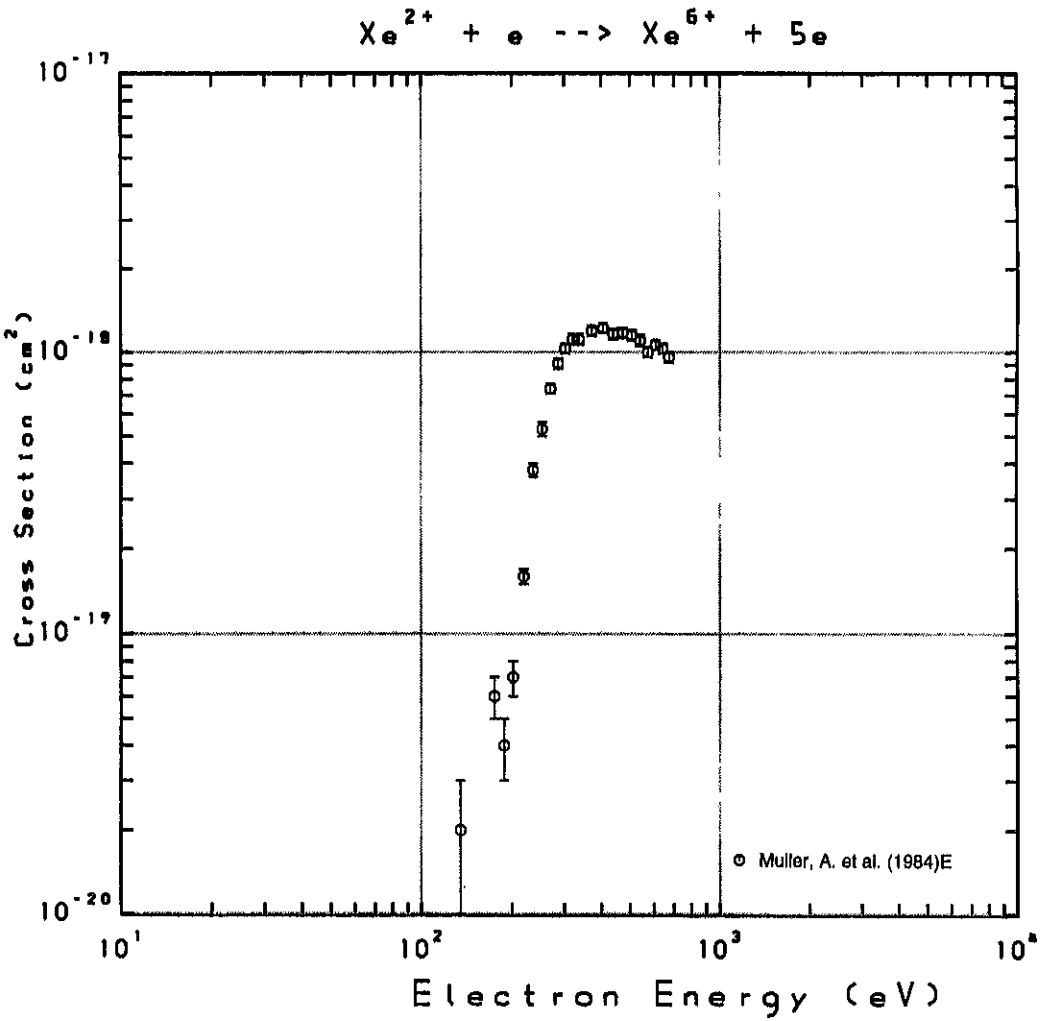

Fig. 368 $Xe^{2+} \rightarrow Xe^{6+}$

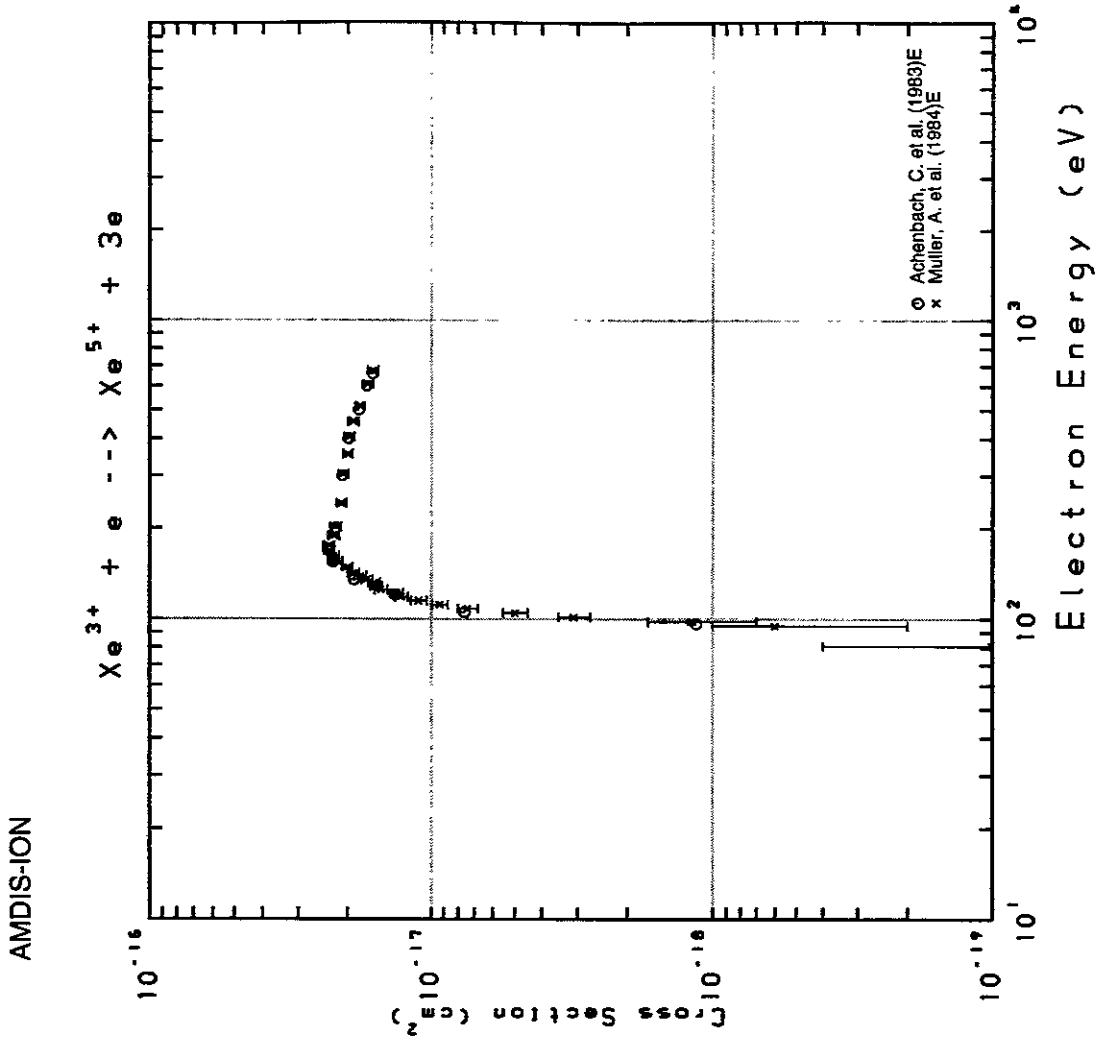

Fig. 370 $Xe^{3+} \rightarrow Xe^{5+}$

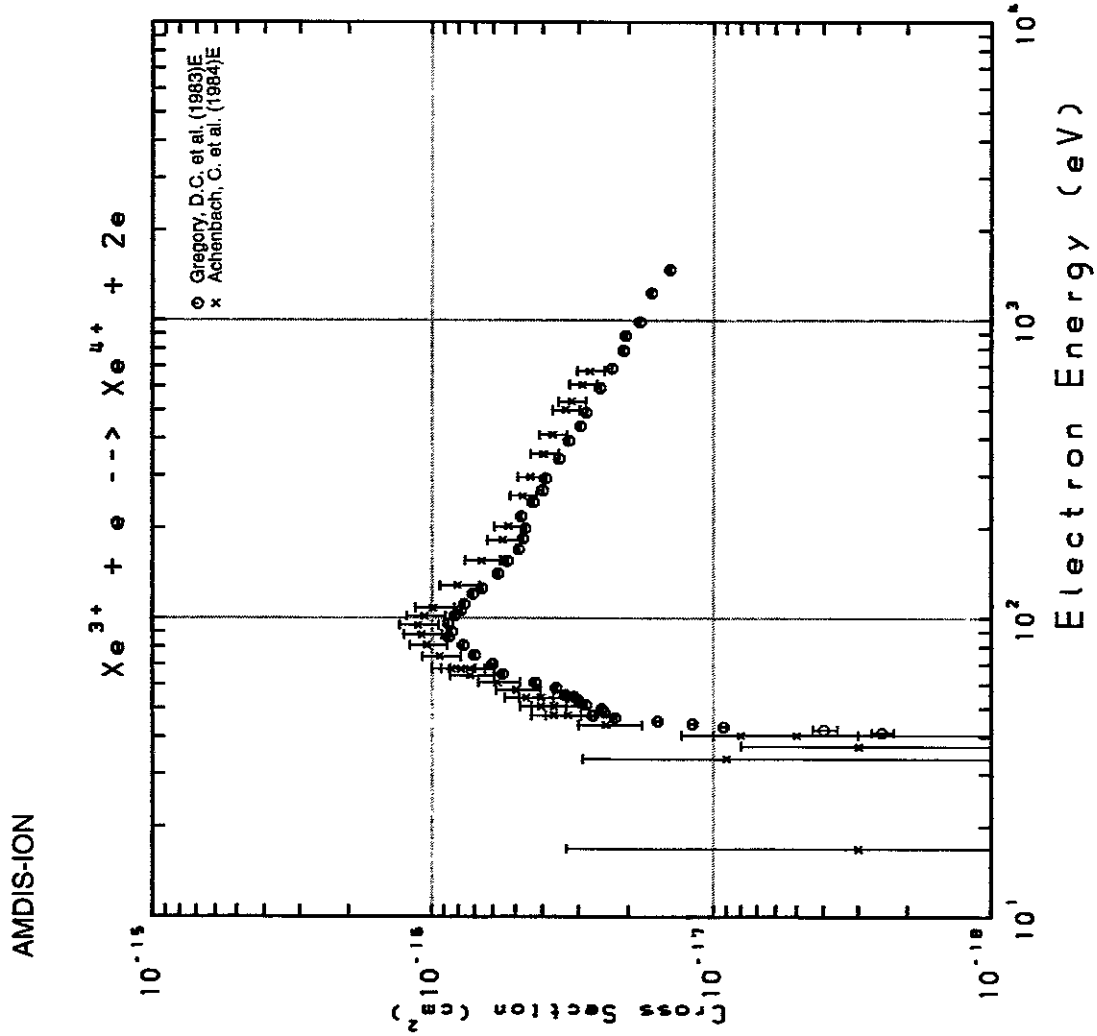

Fig. 369 $Xe^{3+} \rightarrow Xe^{4+}$

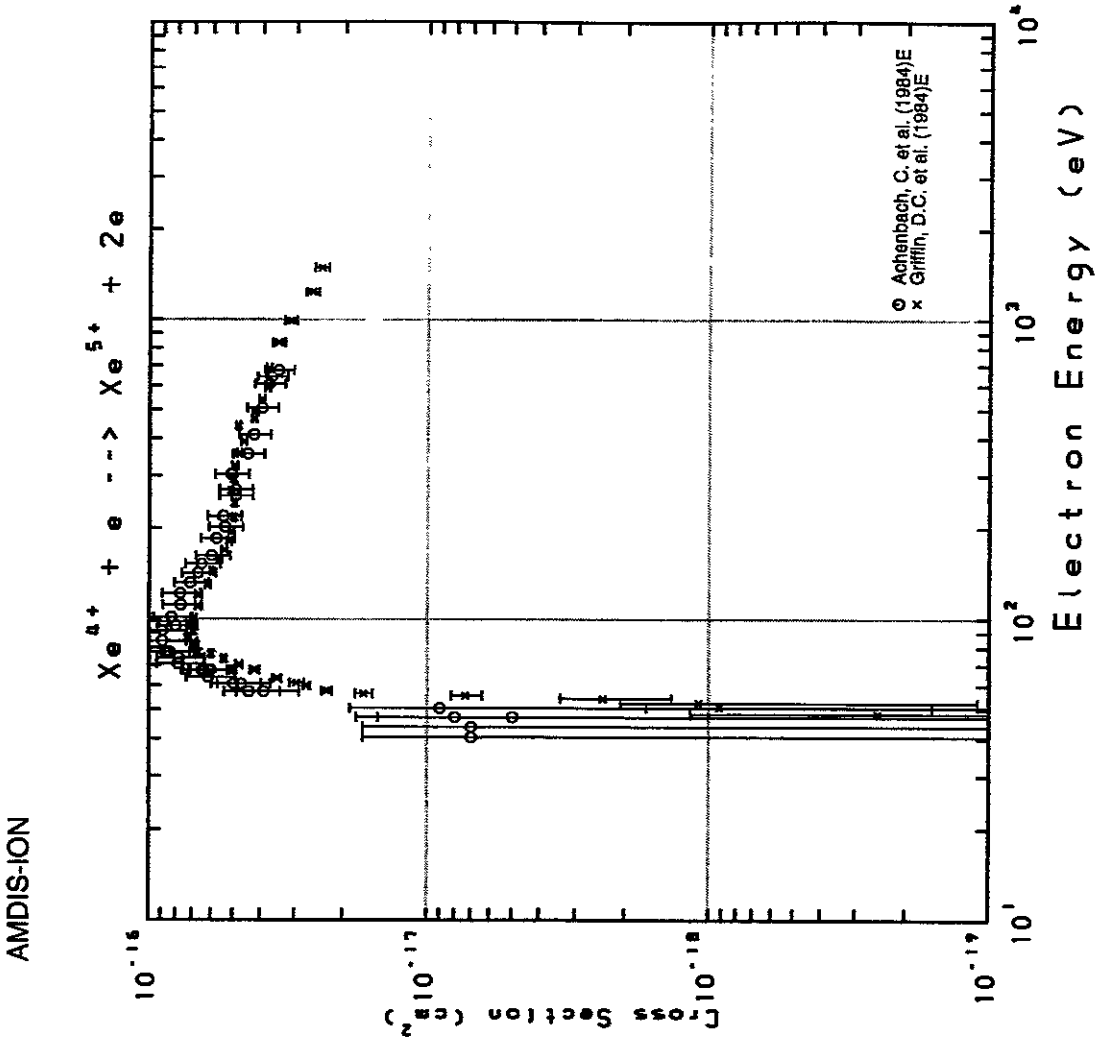

Fig. 372 $Xe^{4+} \rightarrow Xe^{5+}$

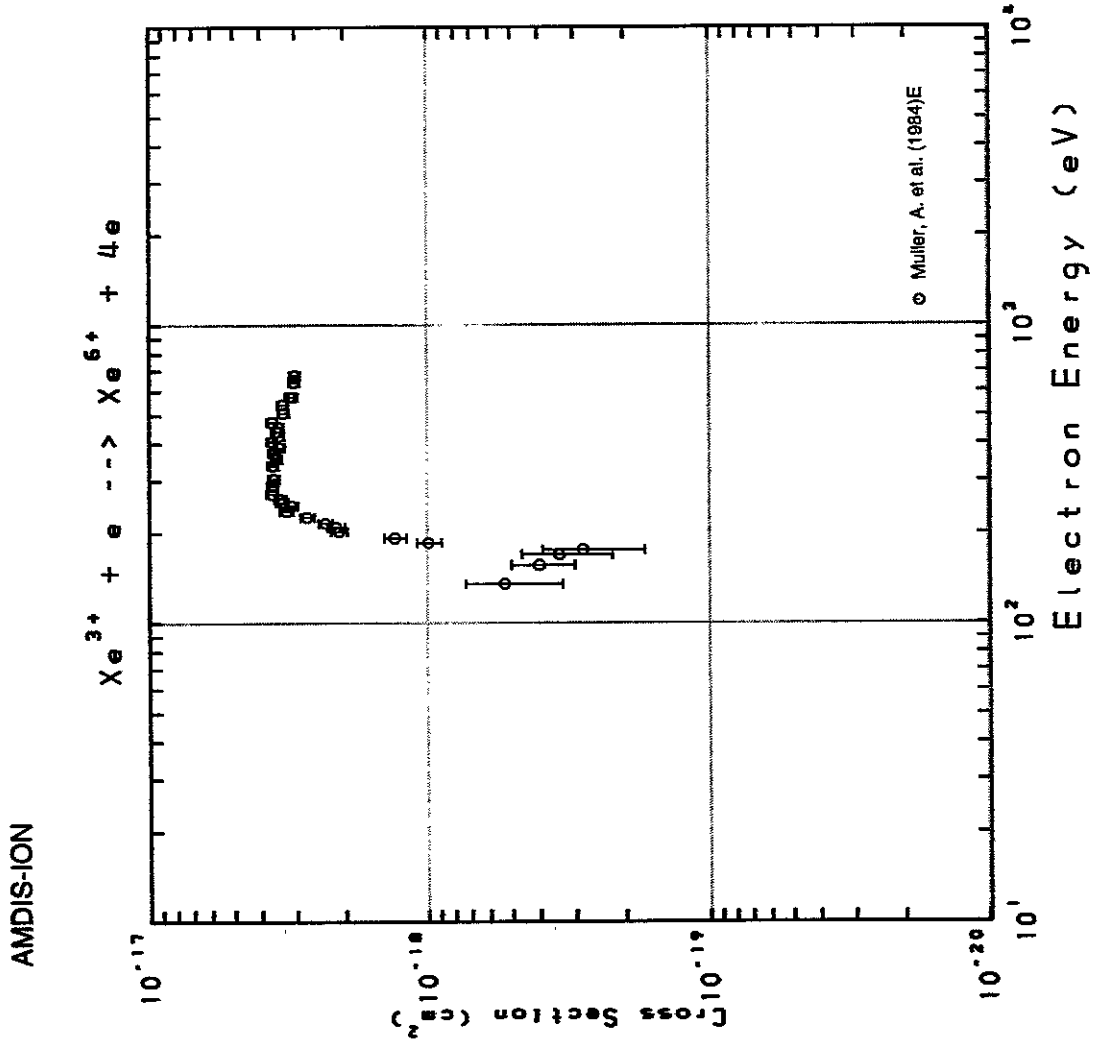

Fig. 371 $Xe^{3+} \rightarrow Xe^{6+}$

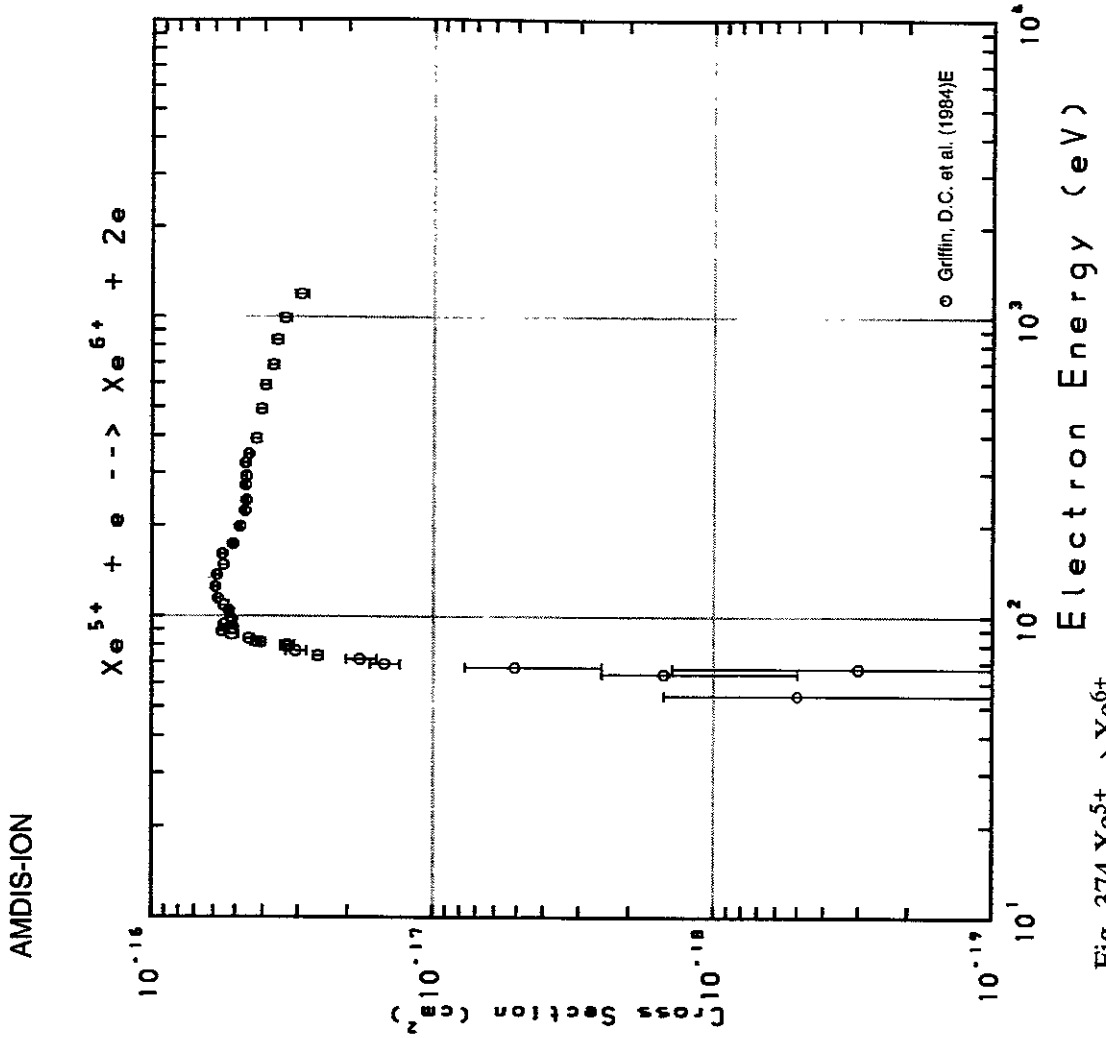

Fig. 374 $Xe^{5+} \rightarrow Xe^{6+}$

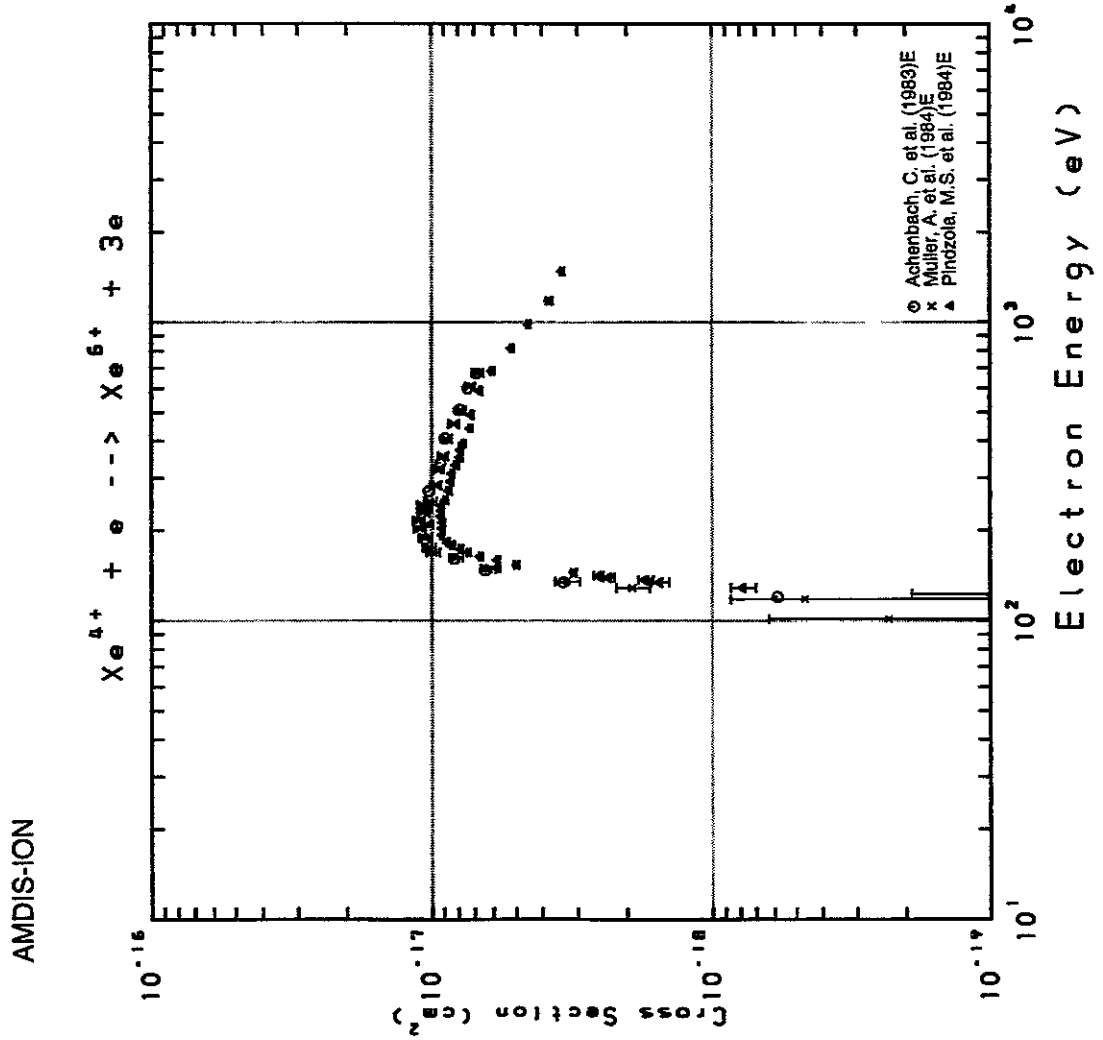

Fig. 373 $Xe^{4+} \rightarrow Xe^{6+}$

AMDIS-ION

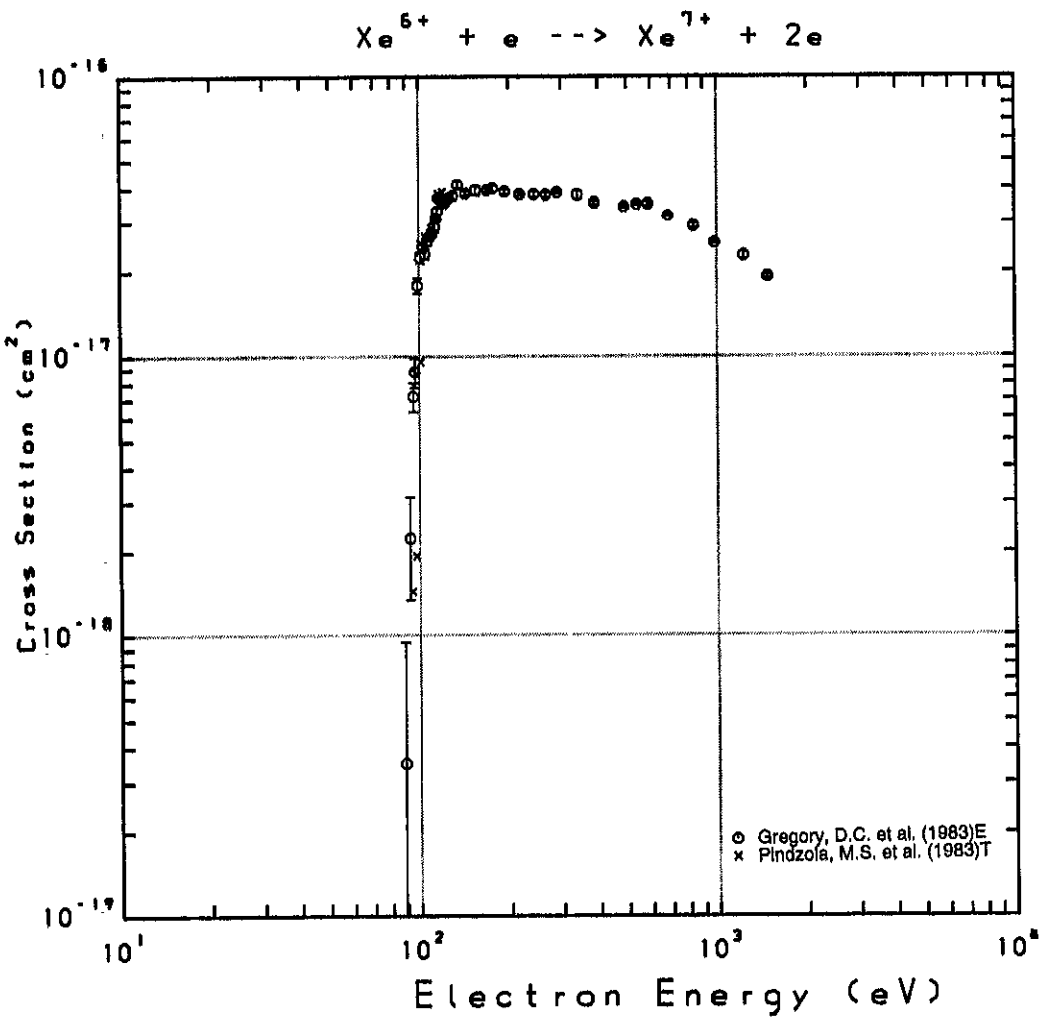

Fig. 375 $Xe^{6+} \rightarrow Xe^{7+}$

AMDIS-ION

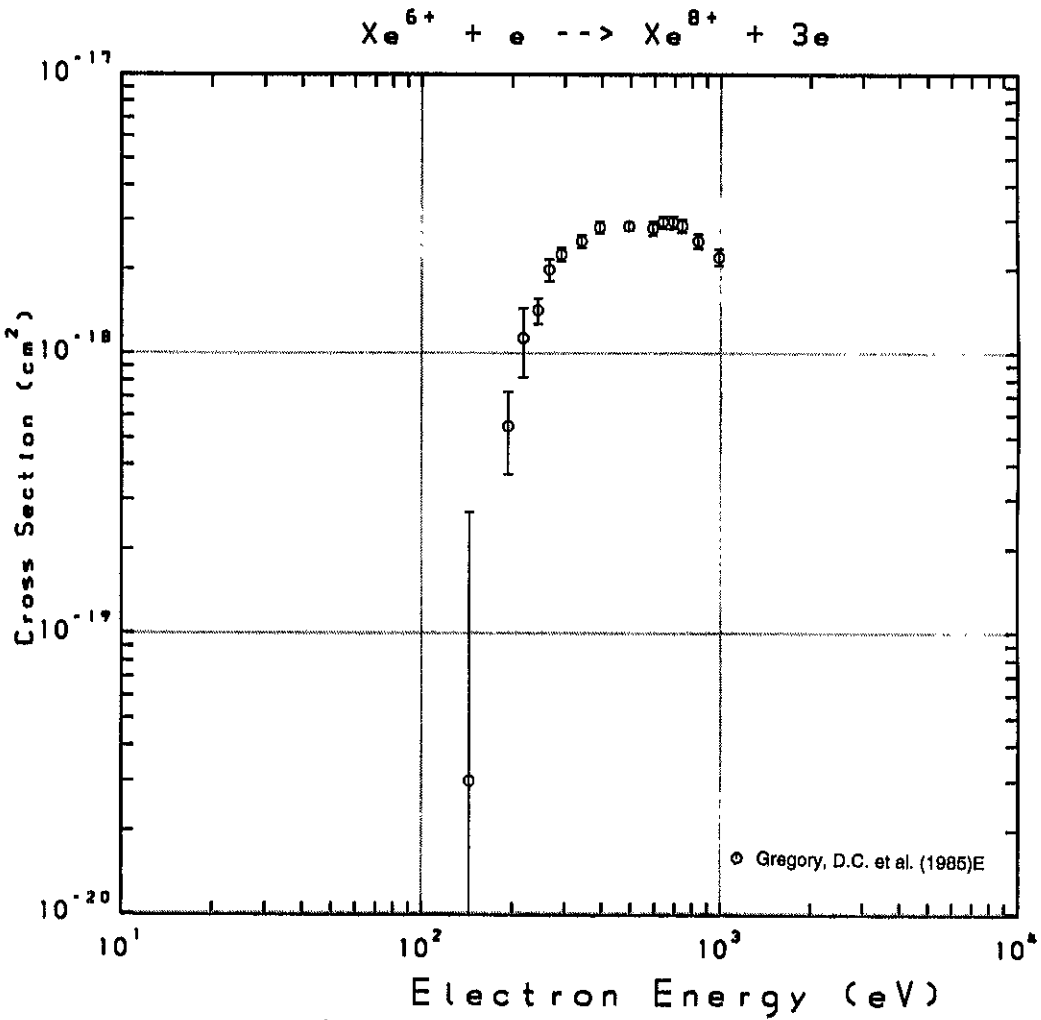

Fig. 376 $Xe^{6+} \rightarrow Xe^{8+}$

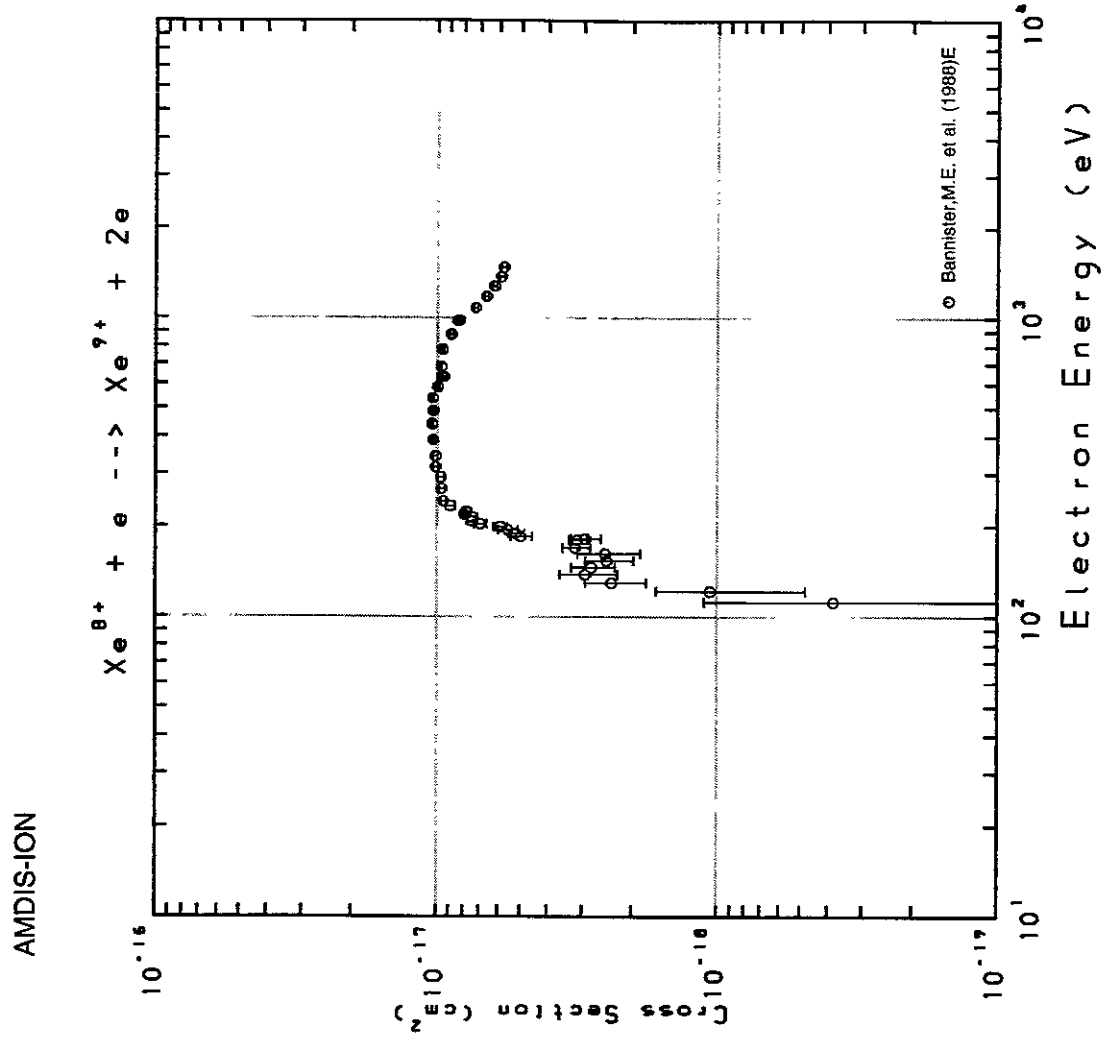

Fig. 378 $Xe^{8+} \rightarrow Xe^{9+}$

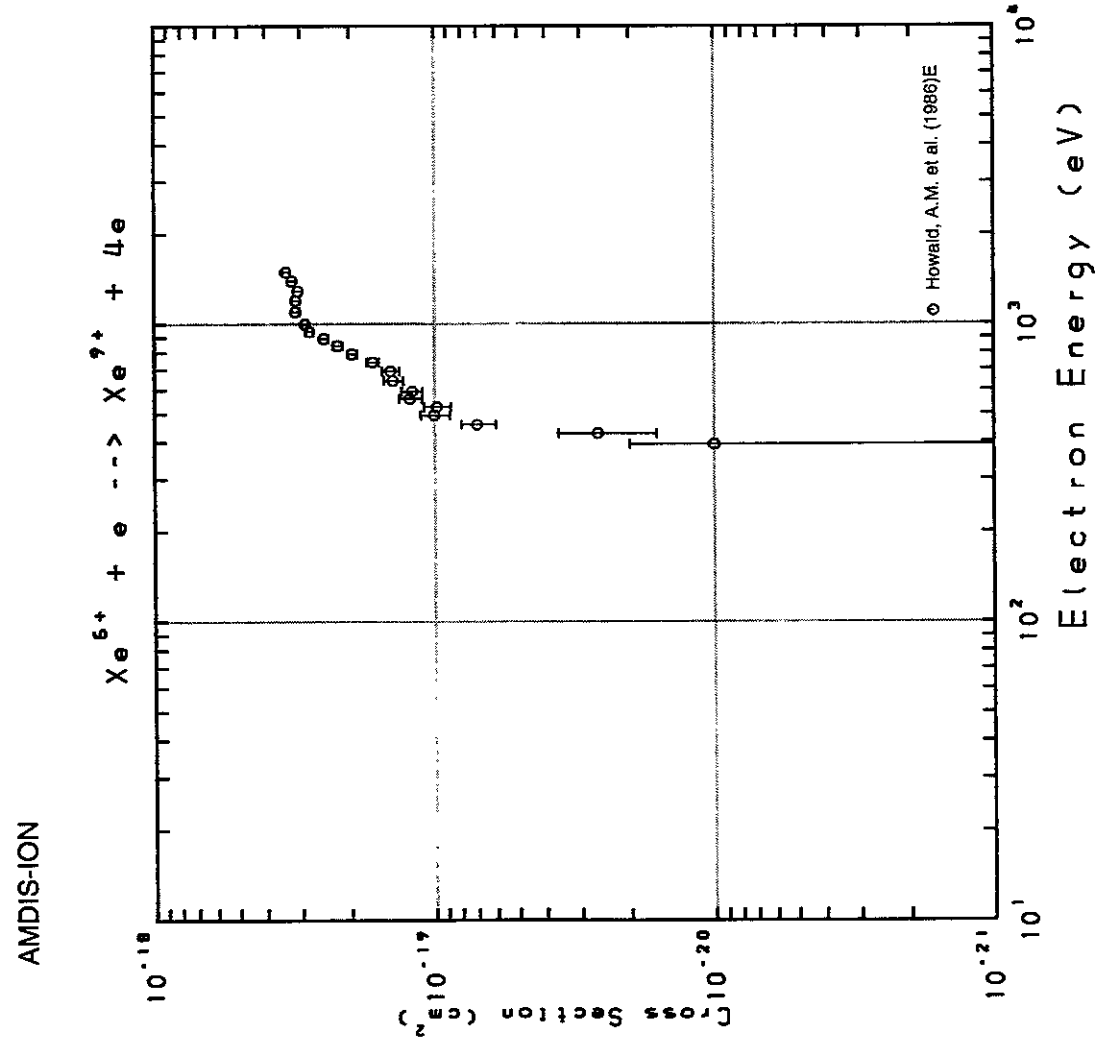

Fig. 377 $Xe^{6+} \rightarrow Xe^{9+}$

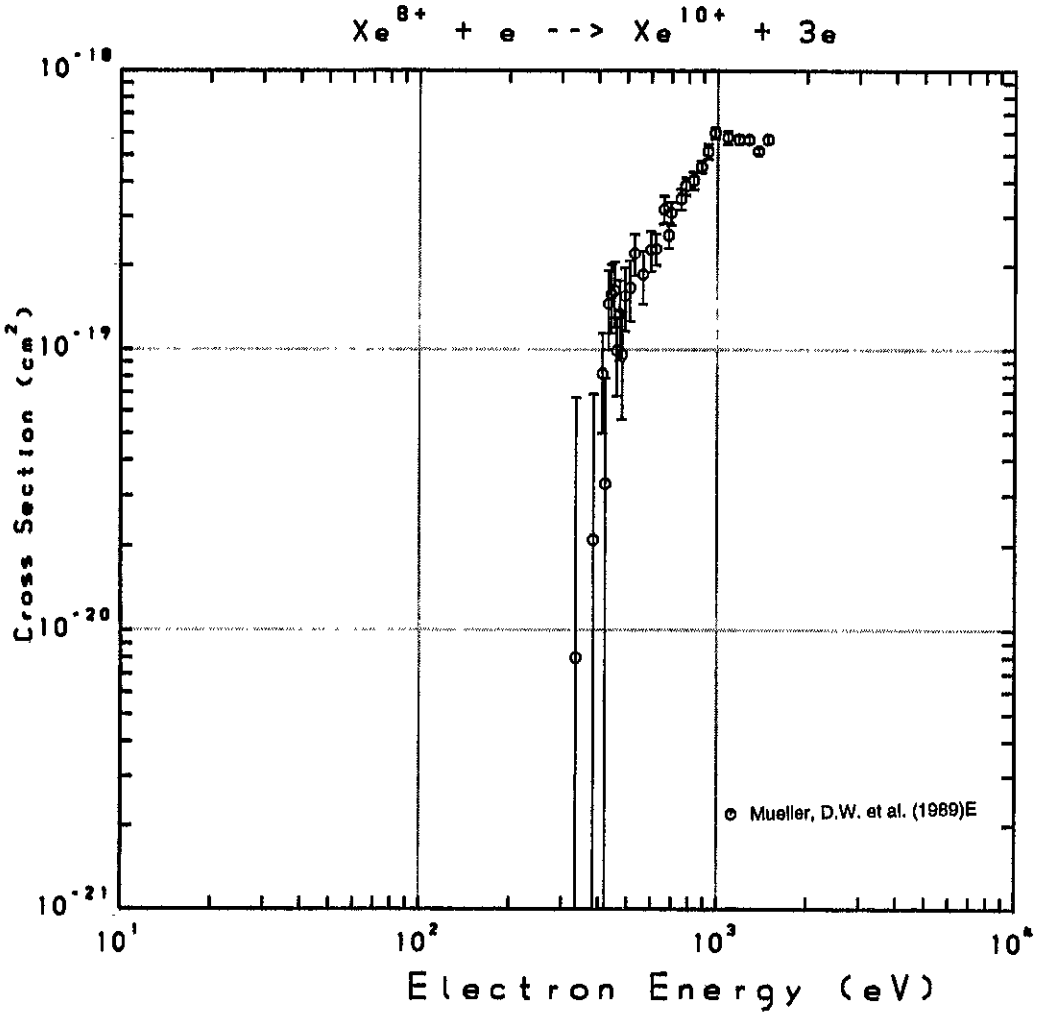

Fig. 379 $Xe^{8+} \rightarrow Xe^{10+}$

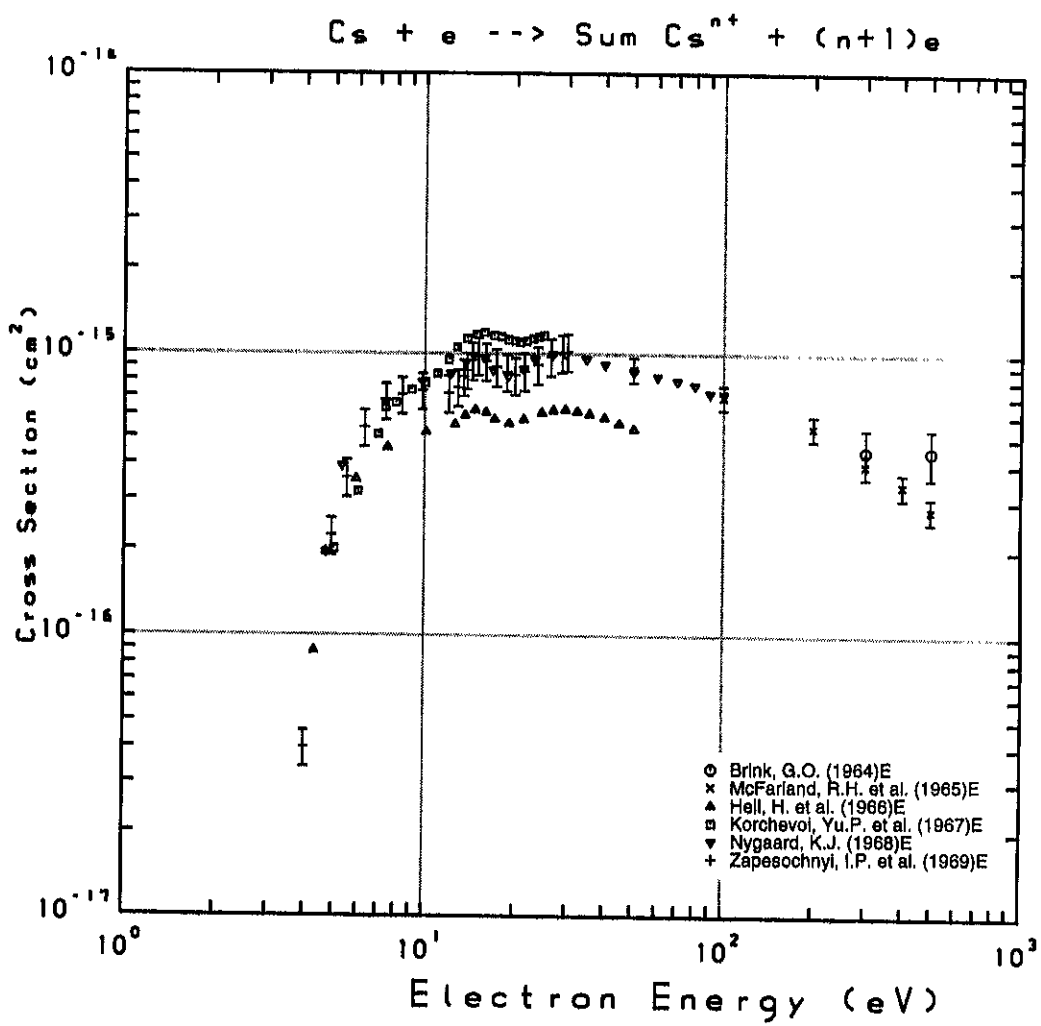

Fig. 380 $Cs \rightarrow \Sigma Cs^{n+}$

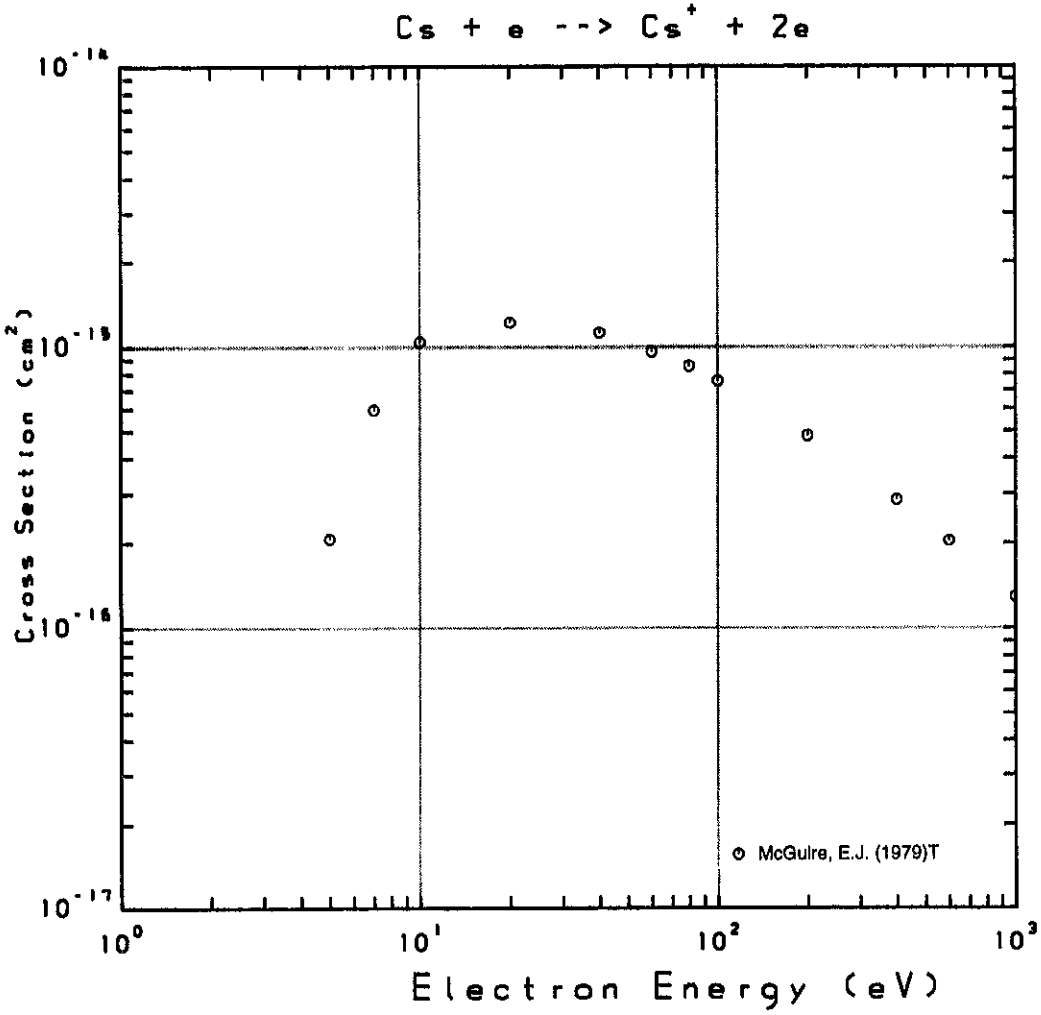

Fig. 381 Cs → Cs^+

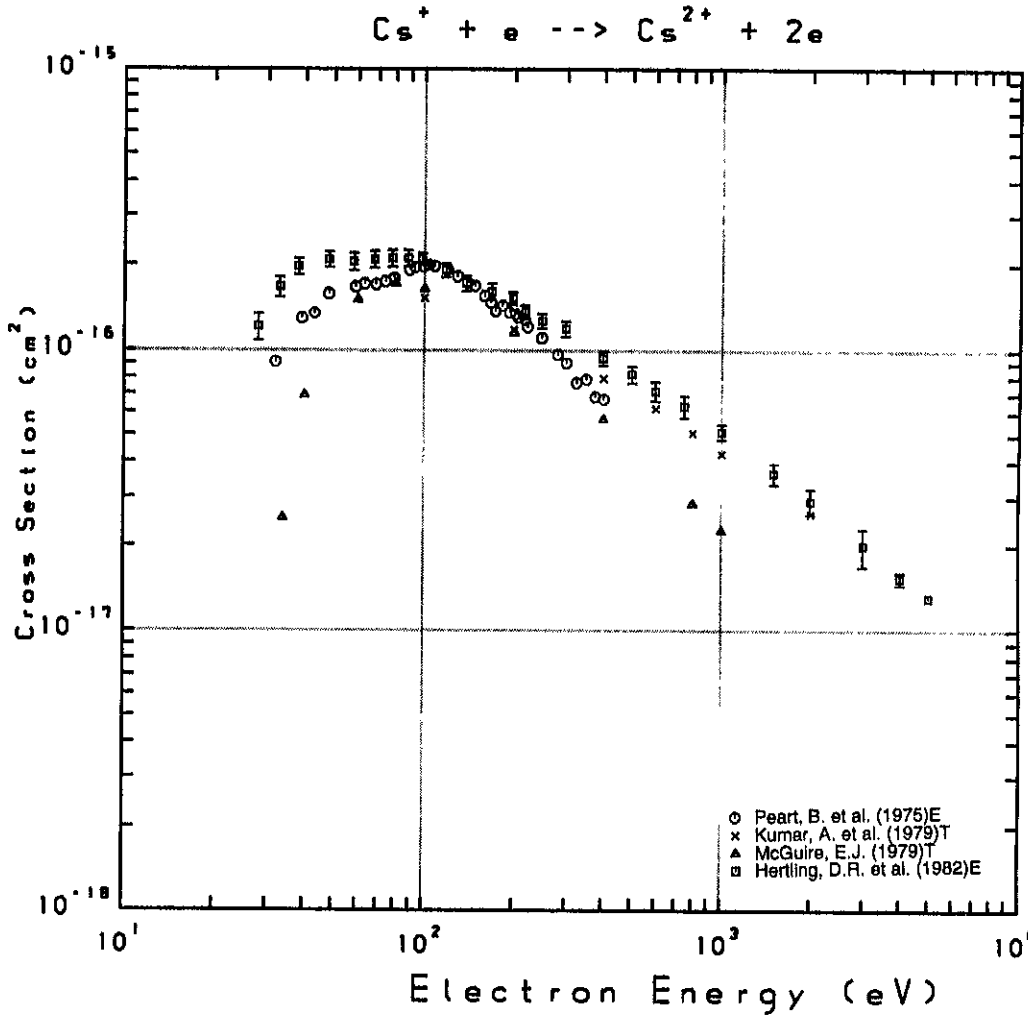

Fig. 382 Cs^+ → Cs^{2+}

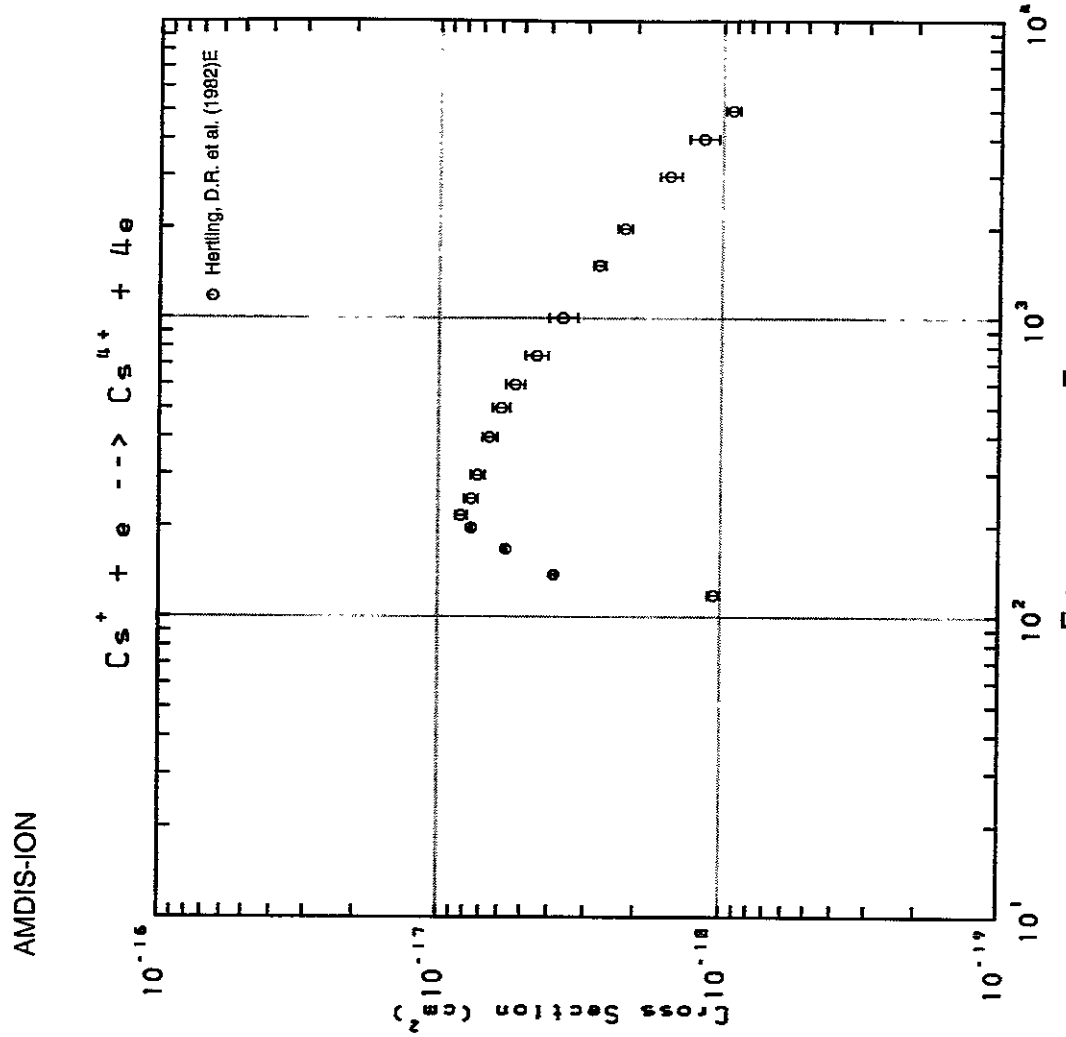

Fig. 384 $Cs^+ \rightarrow Cs^{4+}$

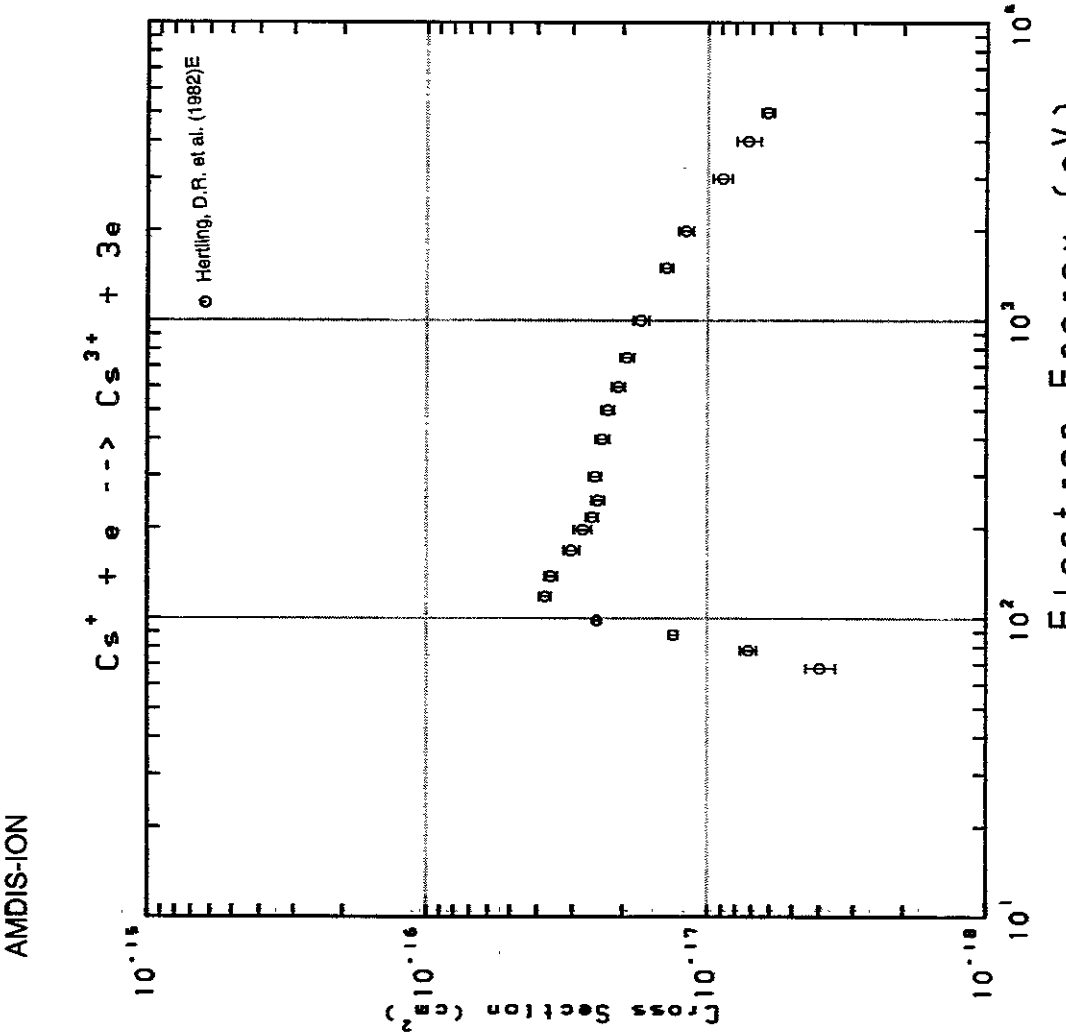

Fig. 383 $Cs^+ \rightarrow Cs^{3+}$

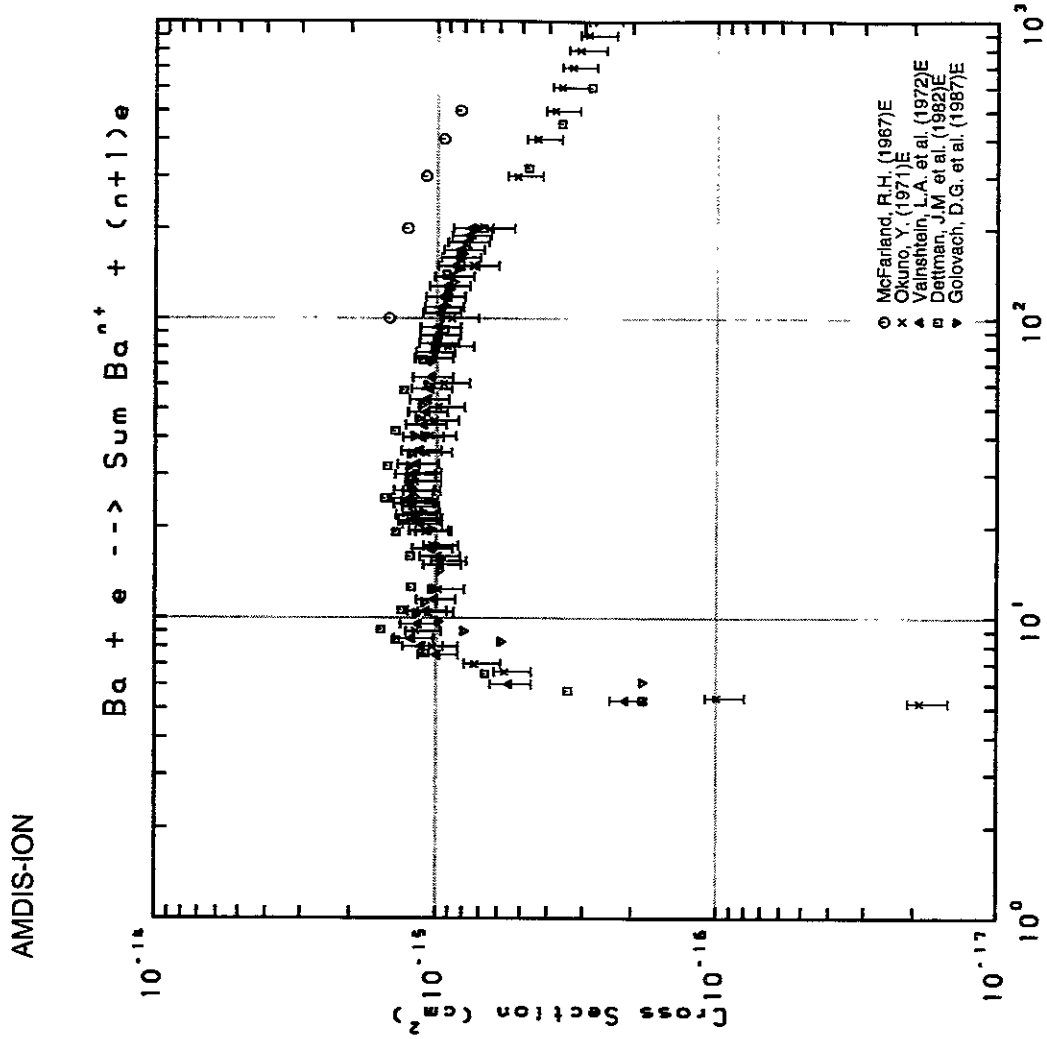

Fig. 386 $Ba^{+} \rightarrow \Sigma Ba^{n+}$

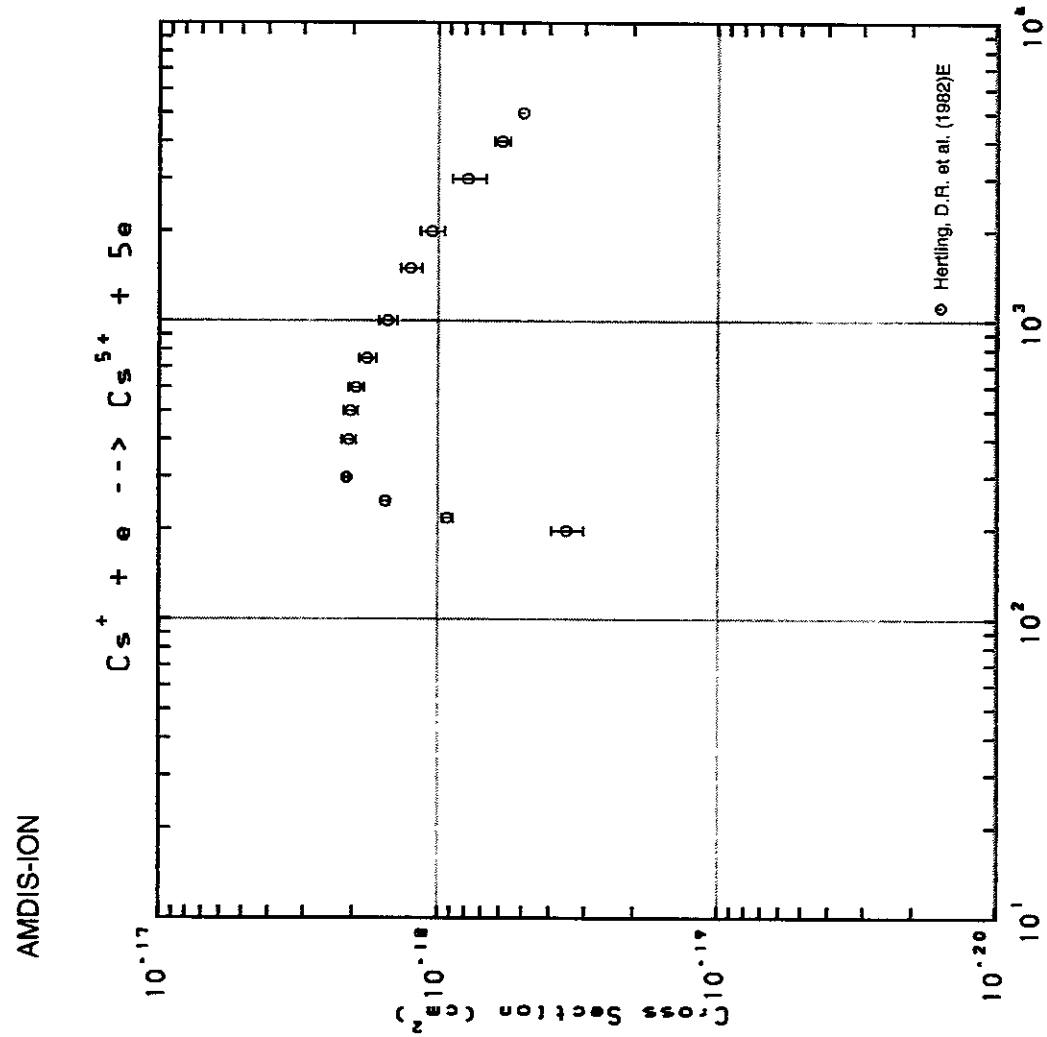

Fig. 385 $Cs^{+} \rightarrow Cs^{5+}$

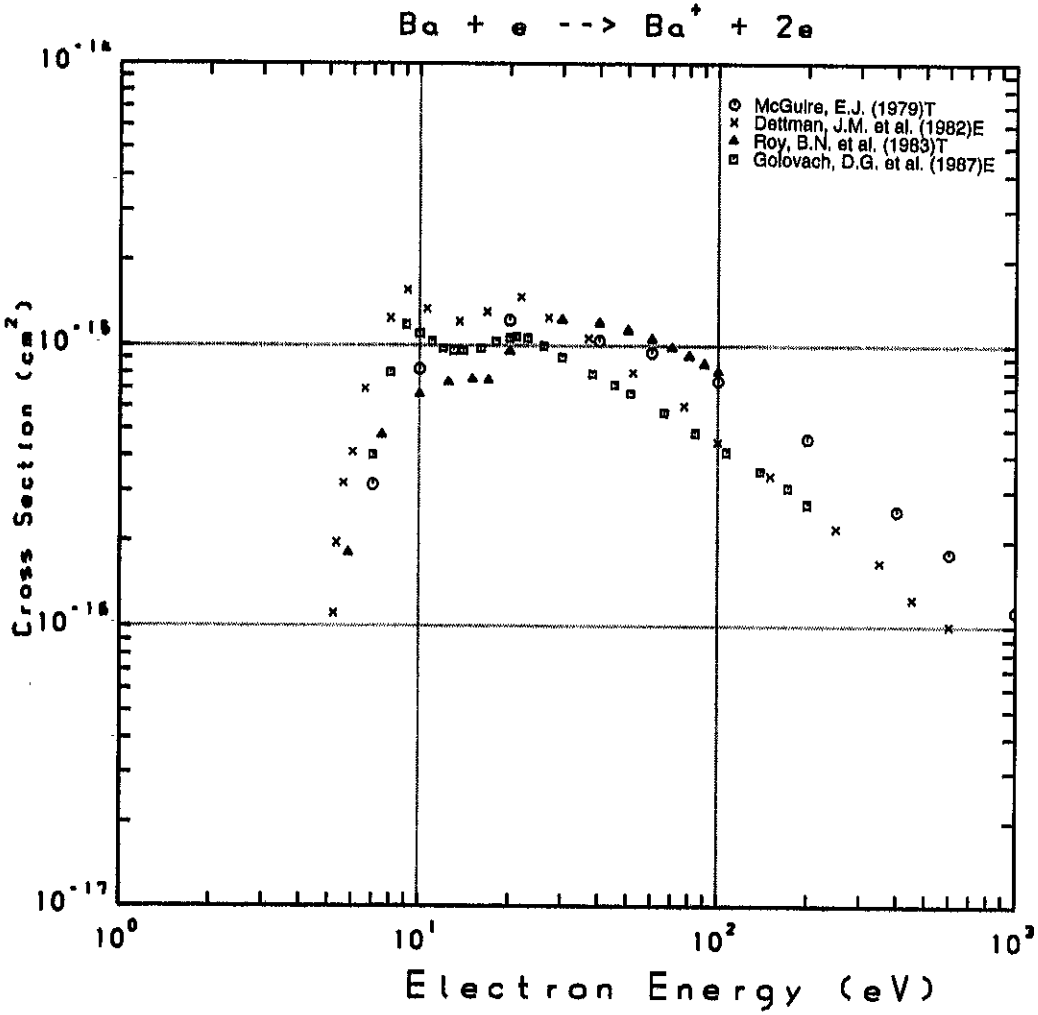

Fig. 387 Ba → Ba^{+}

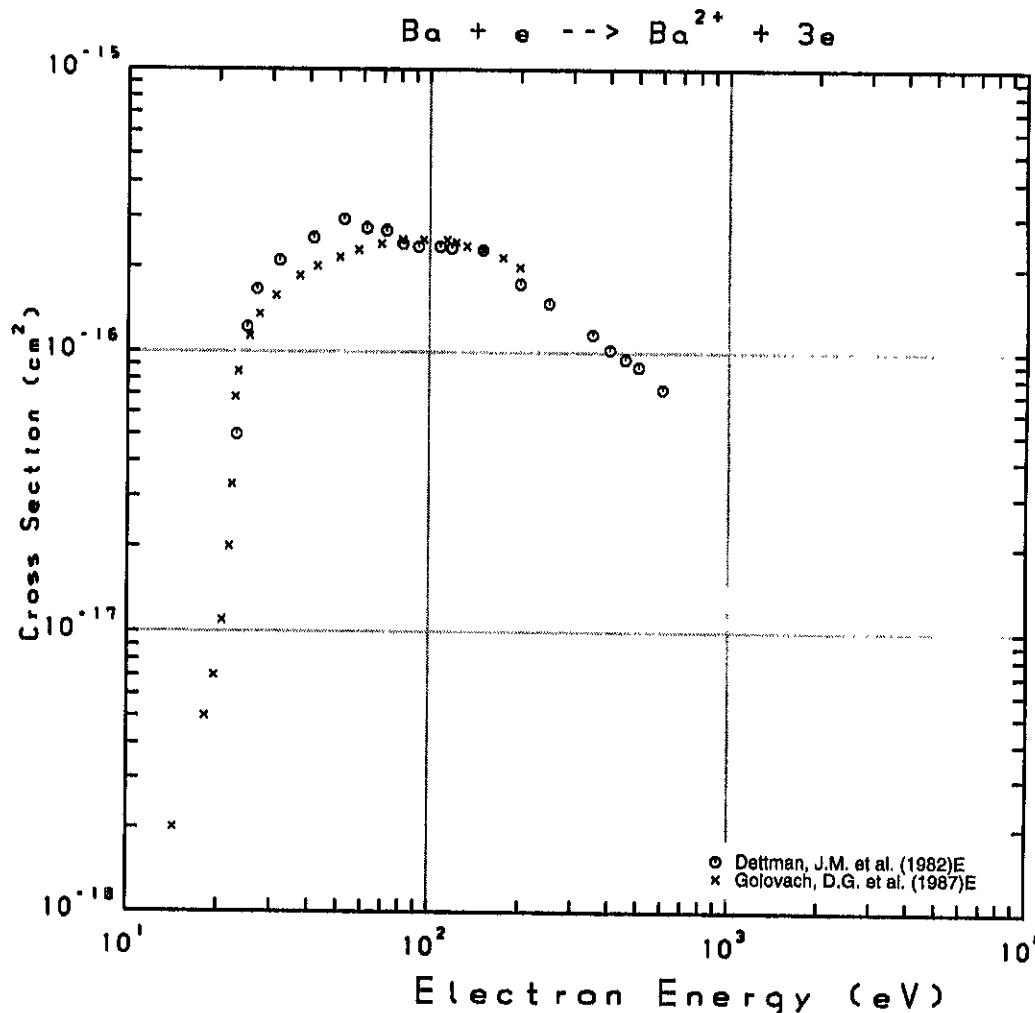

Fig. 388 Ba → Ba^{2+}

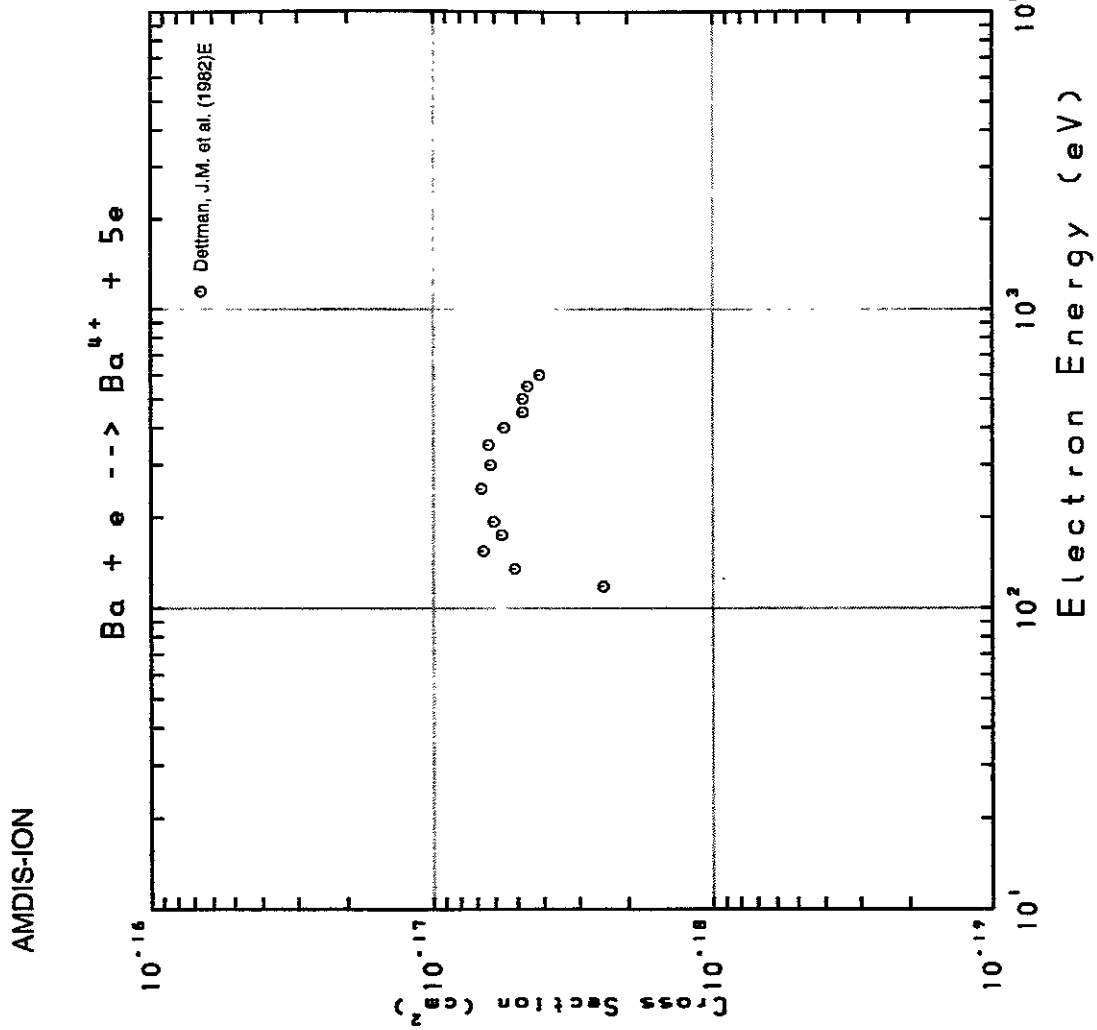

Fig. 390 Ba → Ba^{4+}

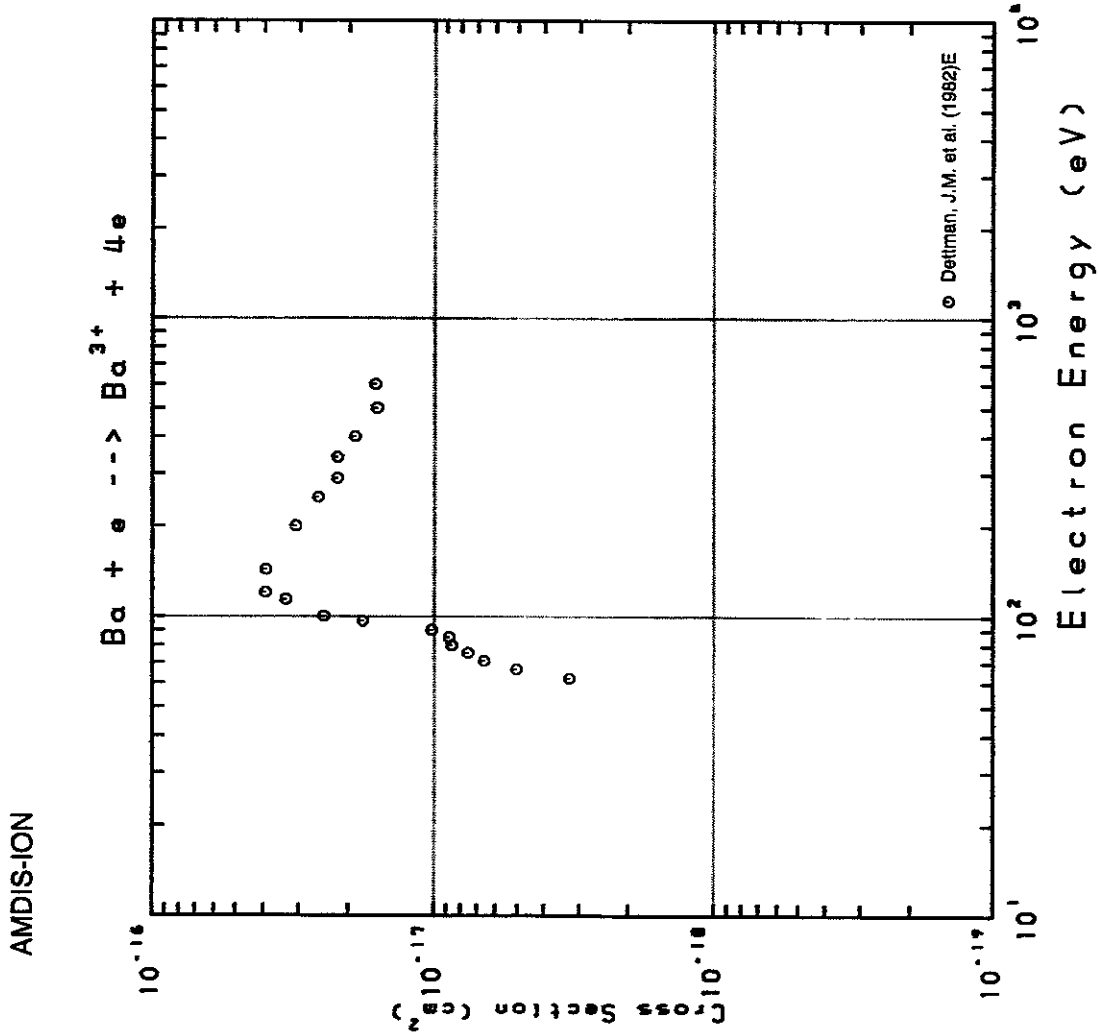

Fig. 389 Ba → Ba^{3+}

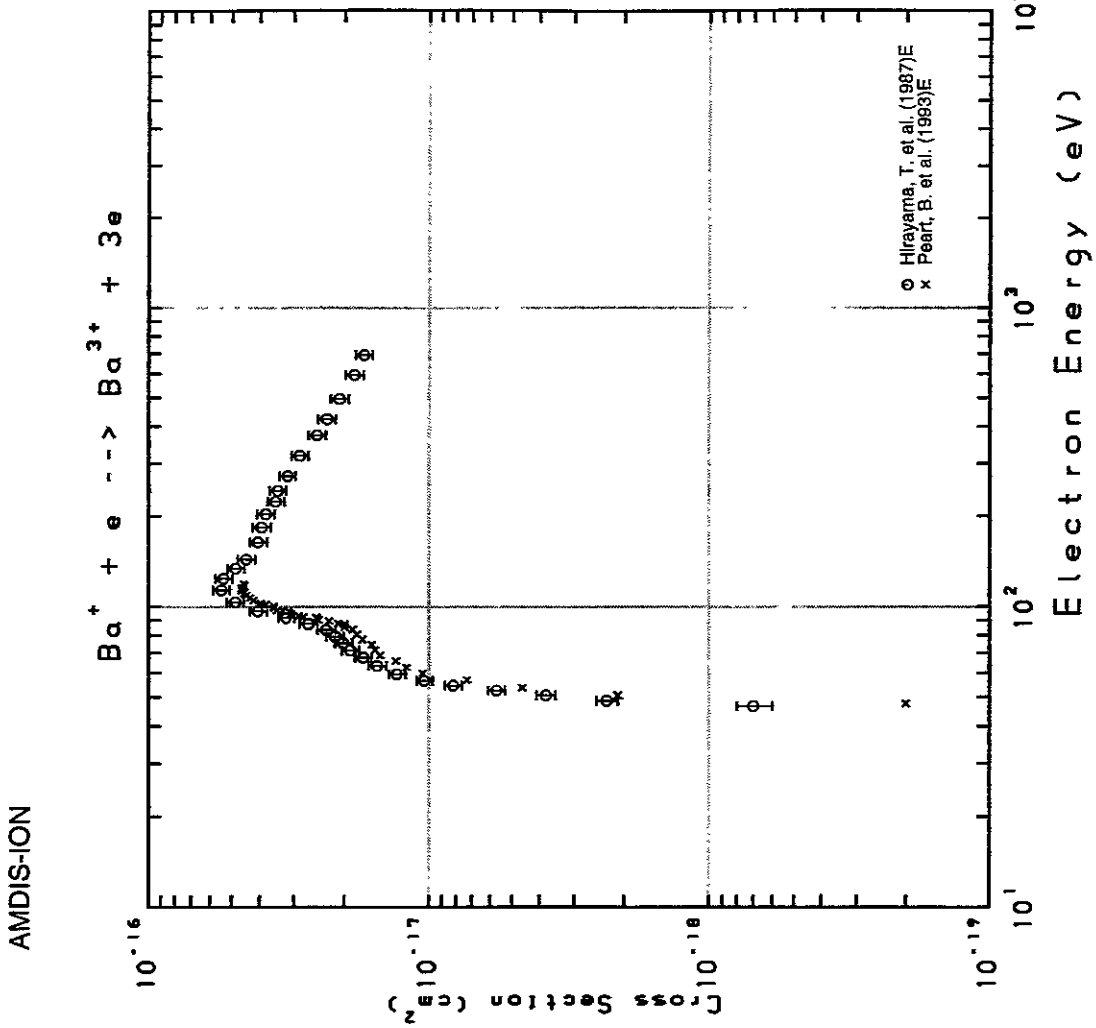

Fig. 392 $Ba^{+} \rightarrow Ba^{3+}$

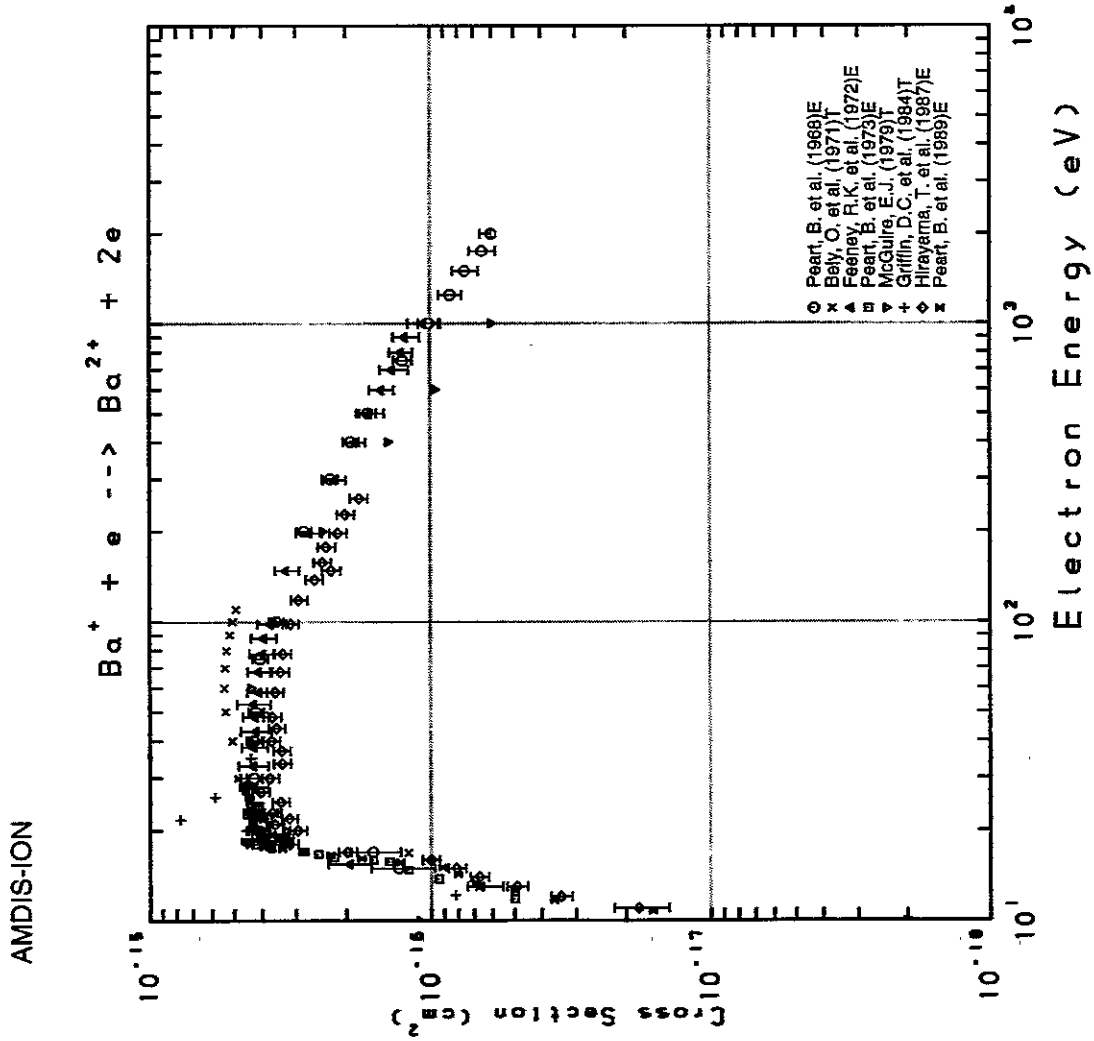

Fig. 391 $Ba^{+} \rightarrow Ba^{2+}$

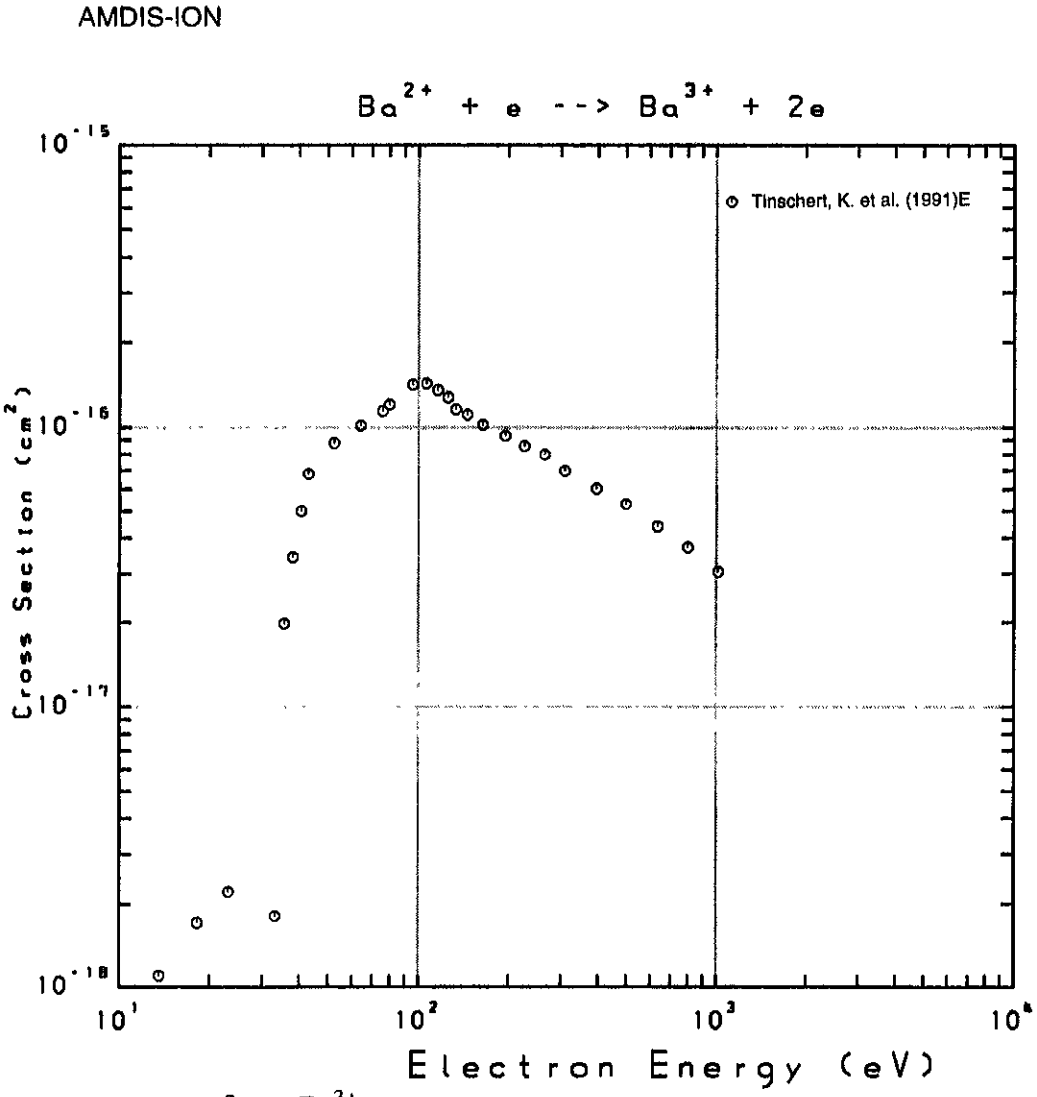

Fig. 393 $Ba^{2+} \rightarrow Ba^{3+}$

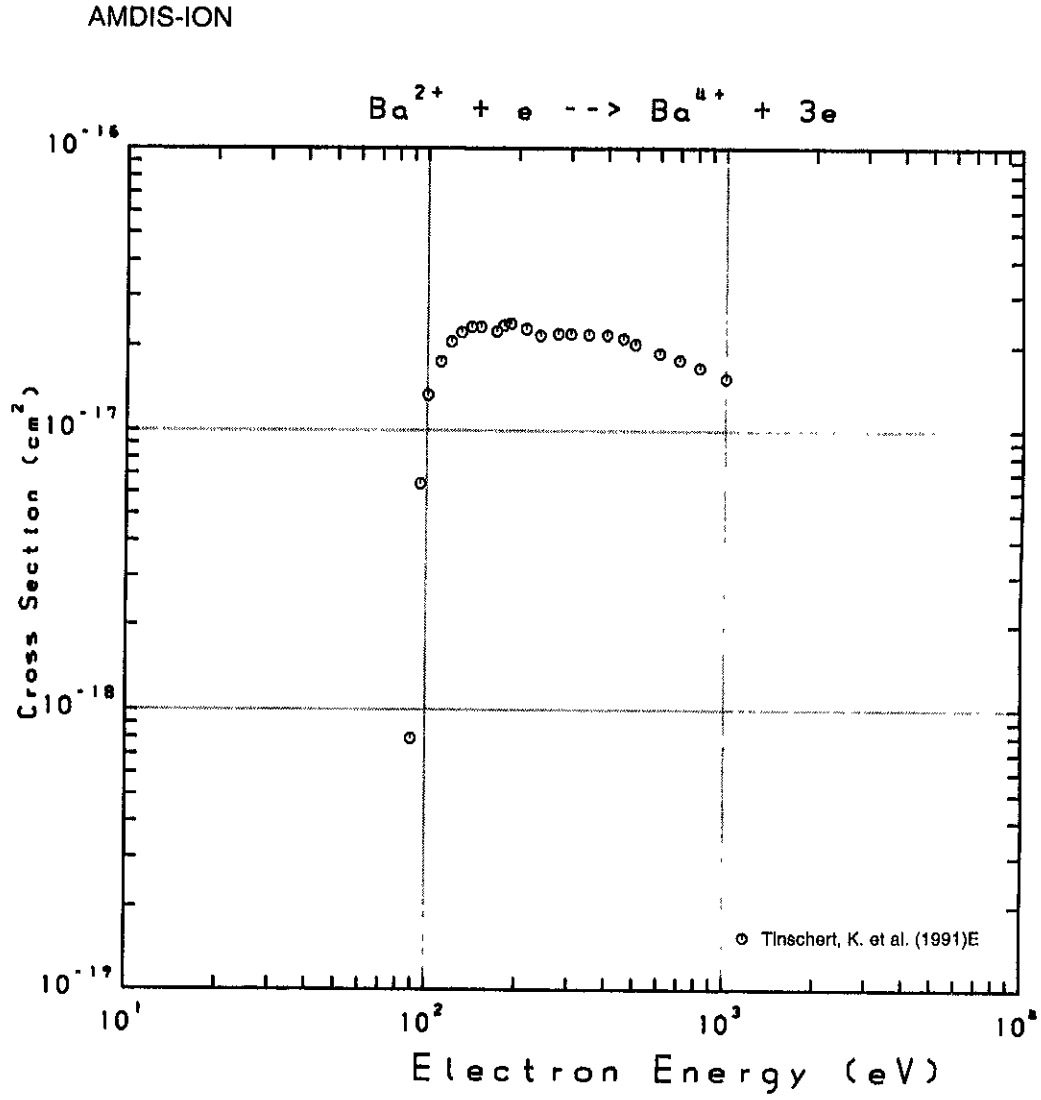

Fig. 394 $Ba^{2+} \rightarrow Ba^{4+}$

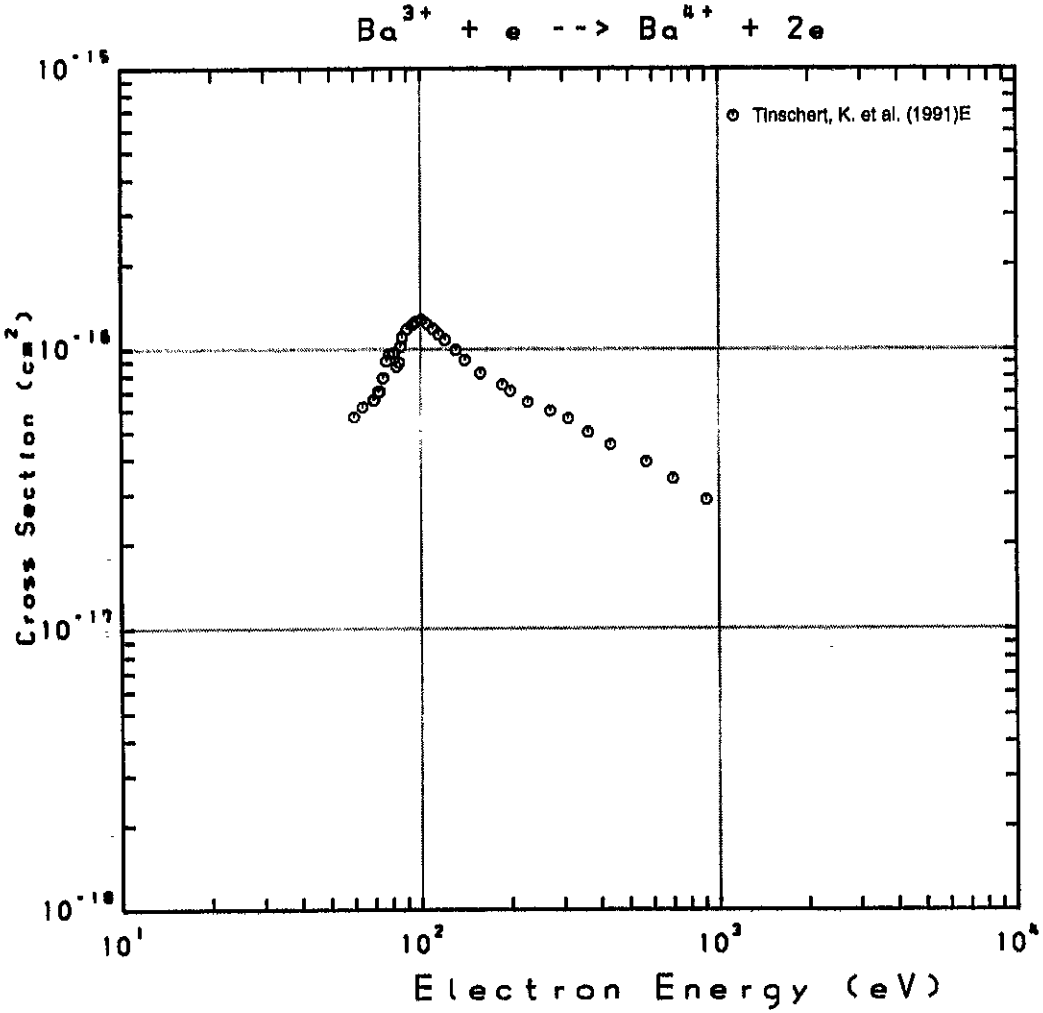

Fig. 395 $Ba^{3+} \rightarrow Ba^{4+}$

AMDIS-ION

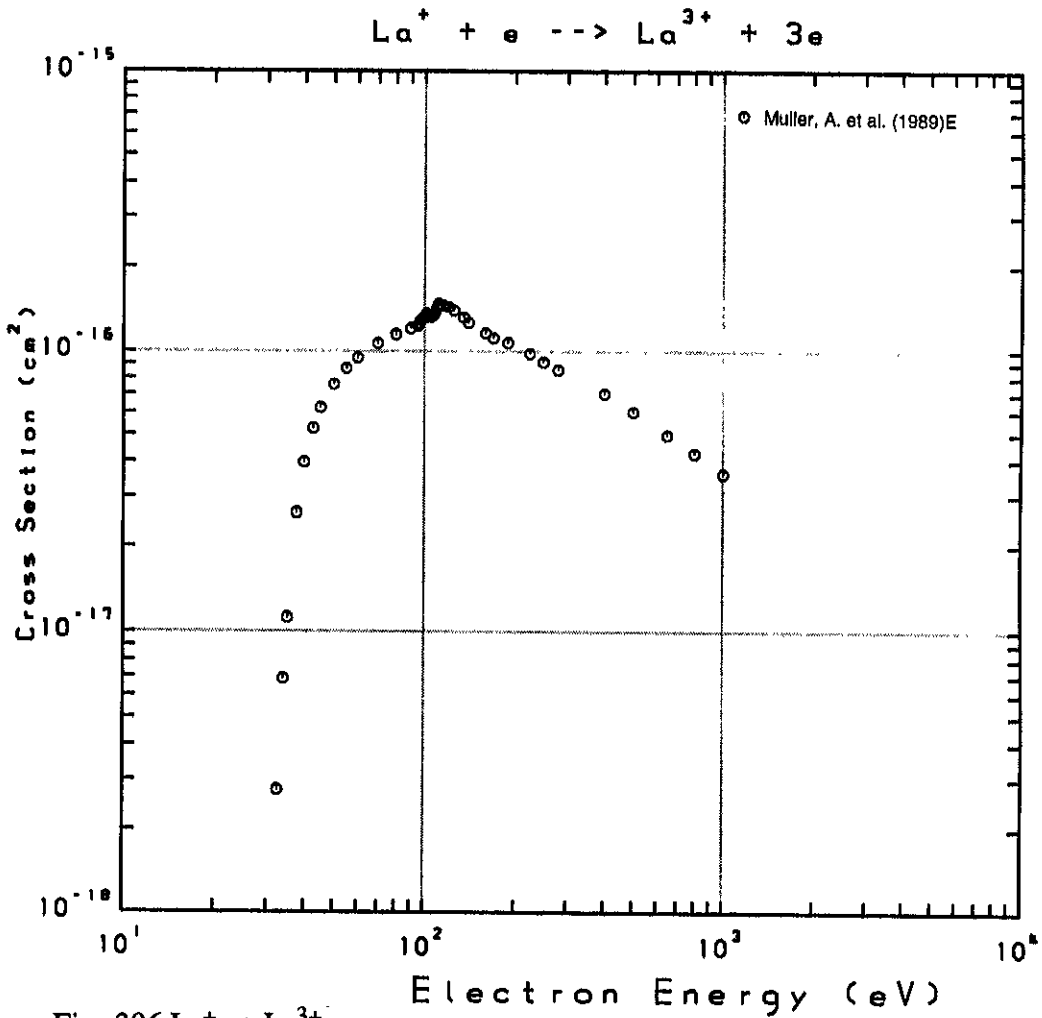

Fig. 396 $La^{+} \rightarrow La^{3+}$

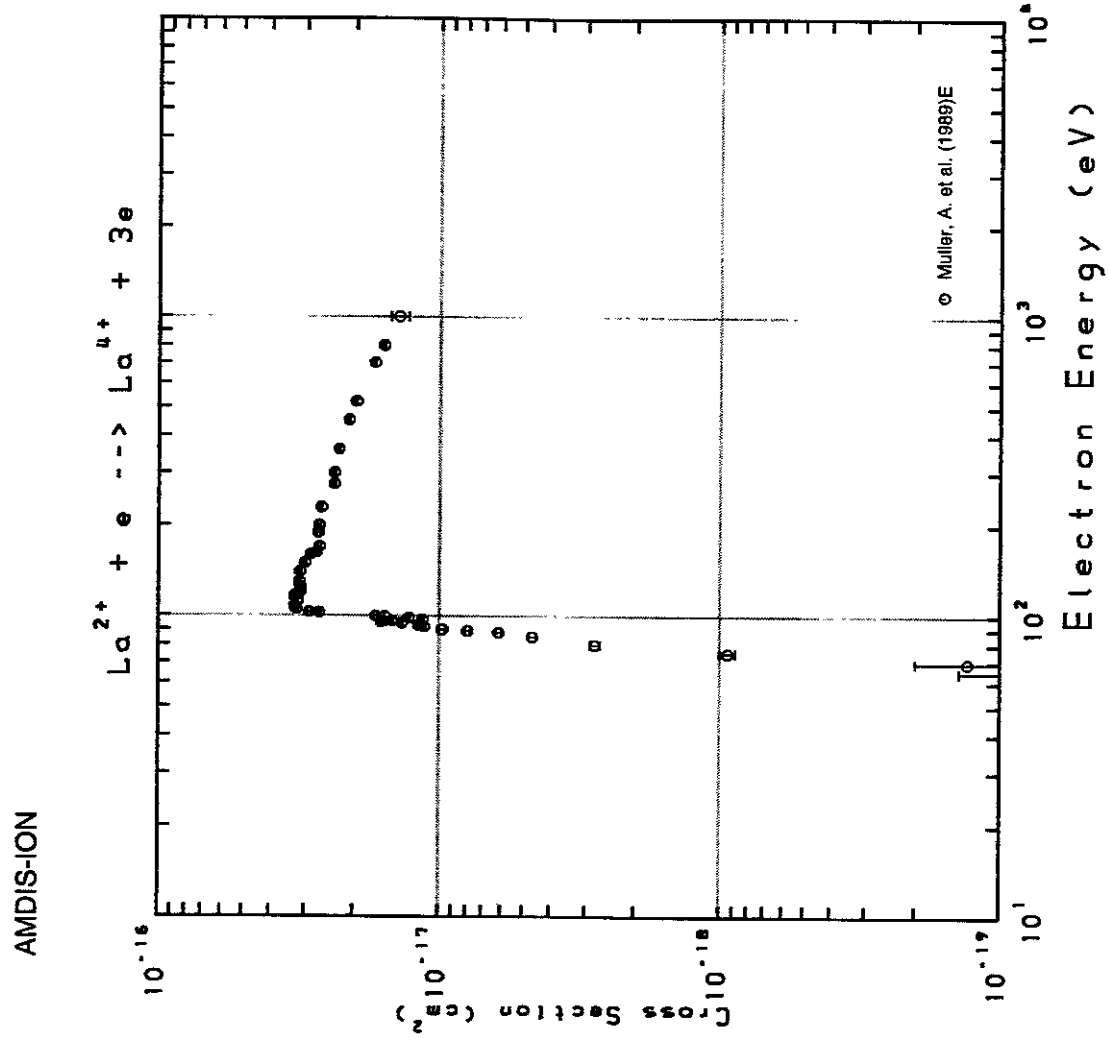

Fig. 398 $La^{2+} \rightarrow La^{4+}$

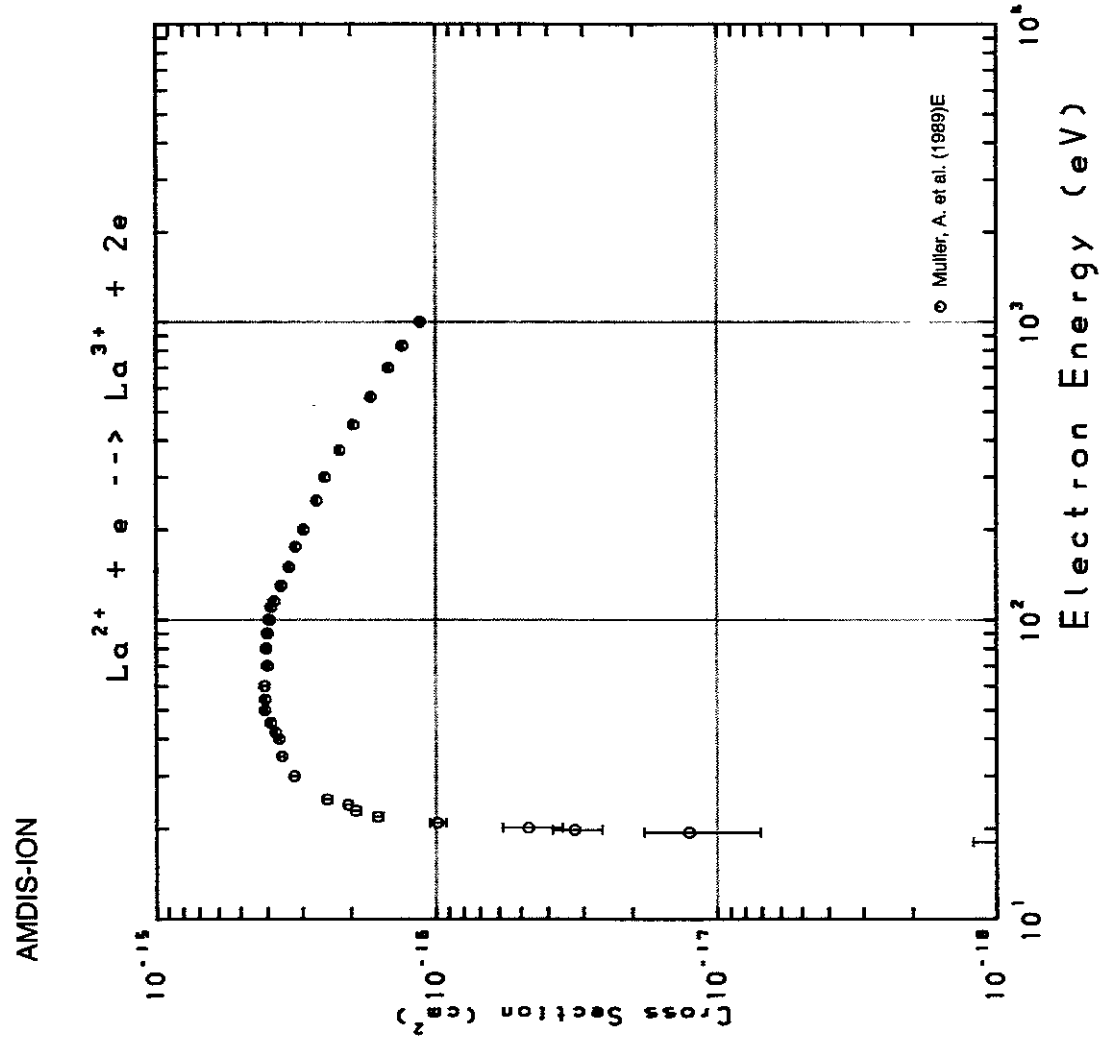

Fig. 397 $La^{2+} \rightarrow La^{3+}$

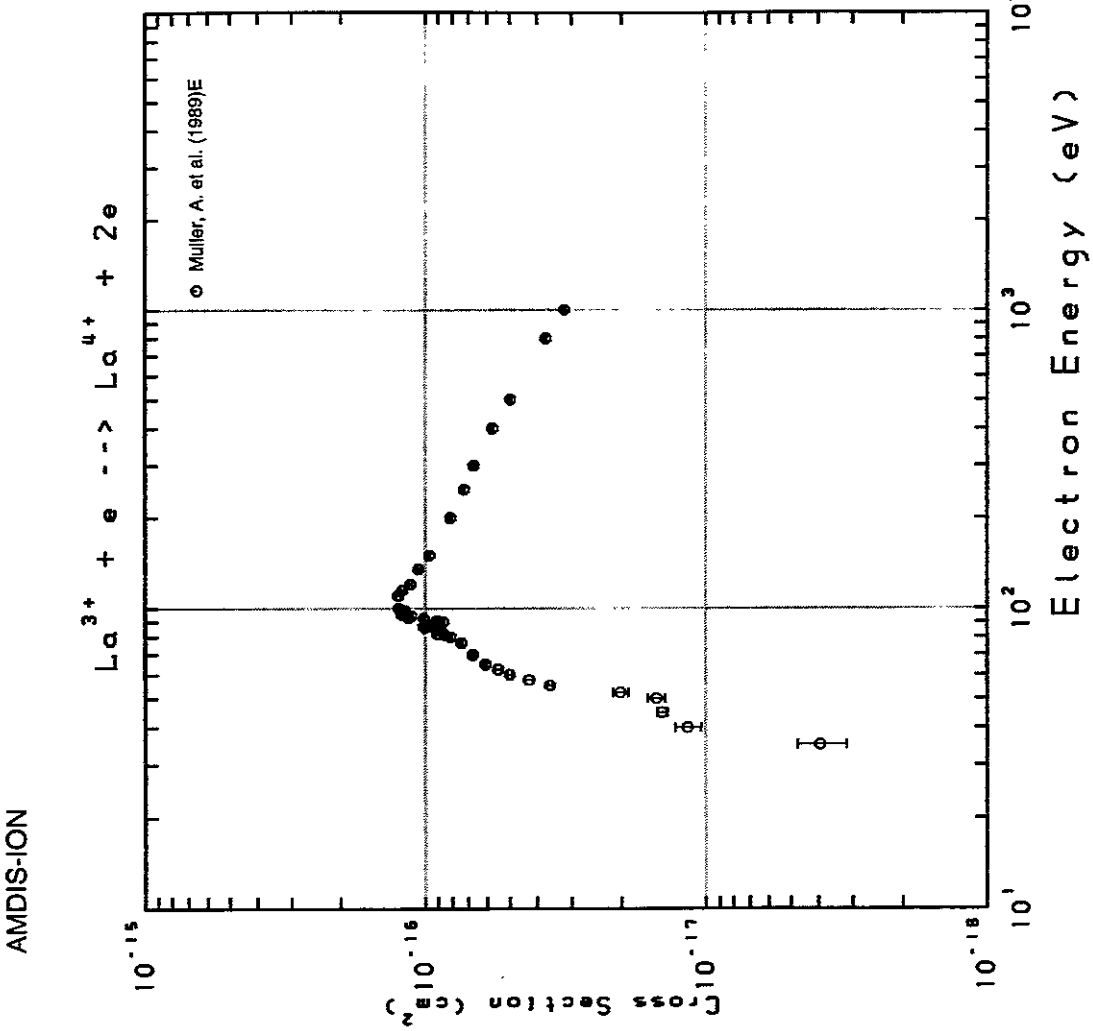

Fig. 400 $La^{3+} \rightarrow La^{4+}$

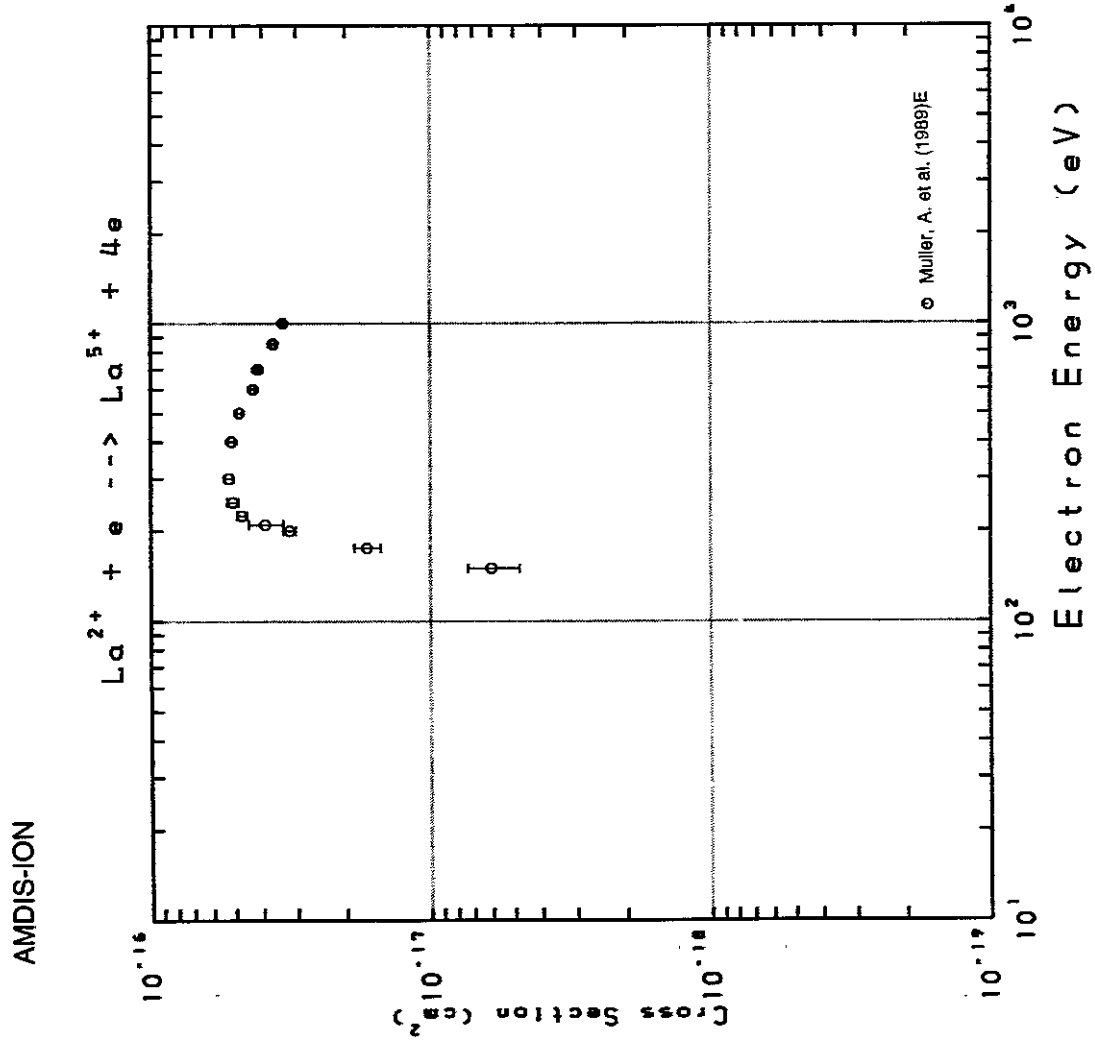

Fig. 399 $La^{2+} \rightarrow La^{5+}$

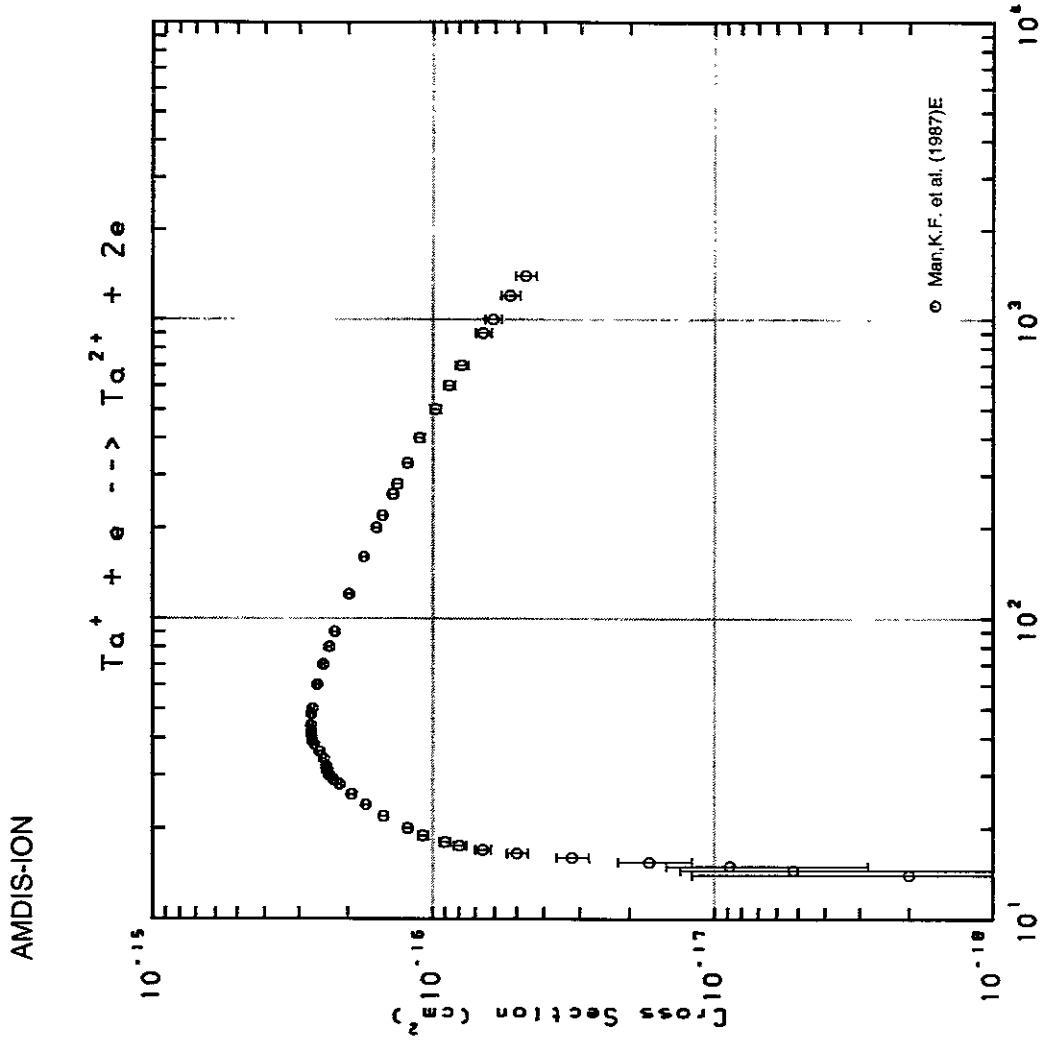

Fig. 402 $Ta^{+} \rightarrow Ta^{2+}$

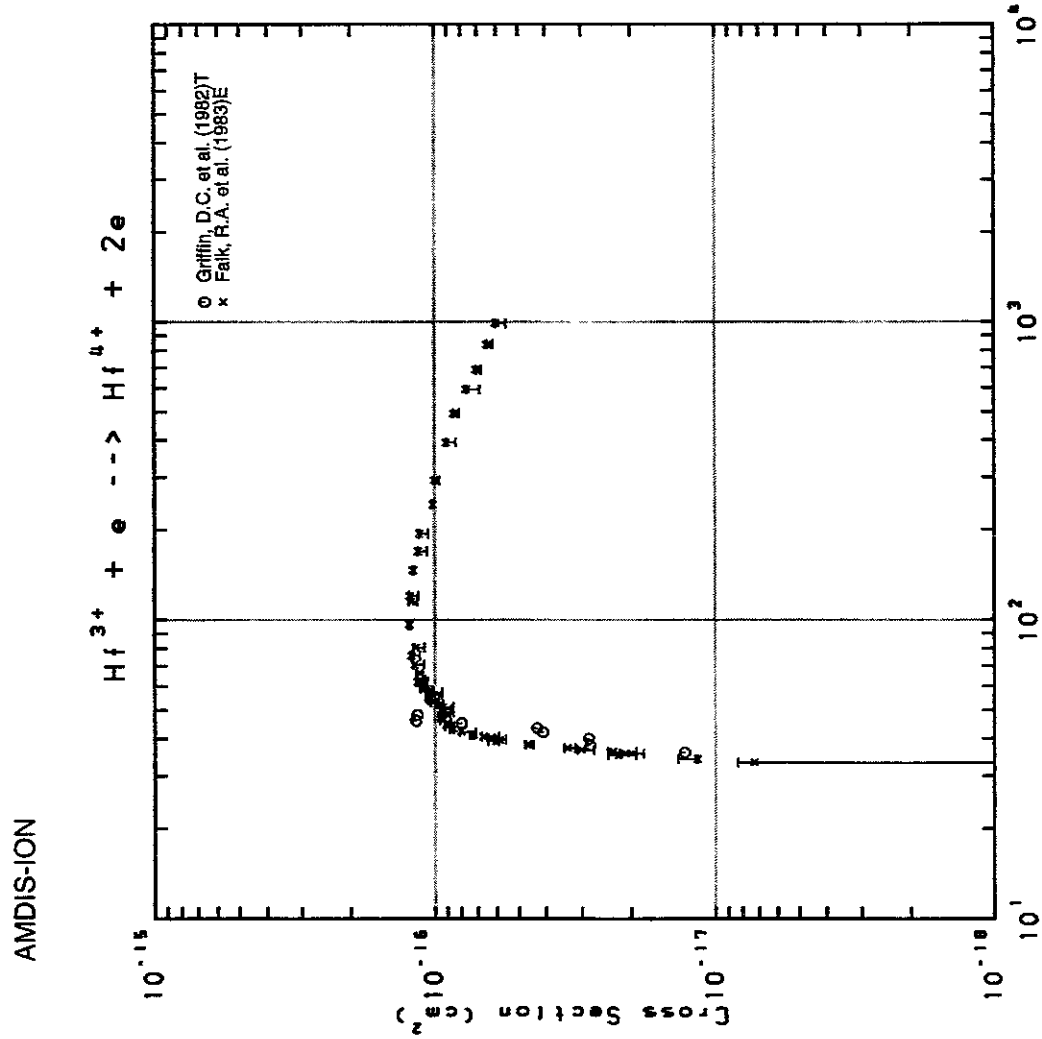

Fig. 401 $Hf^{3+} \rightarrow Hf^{4+}$

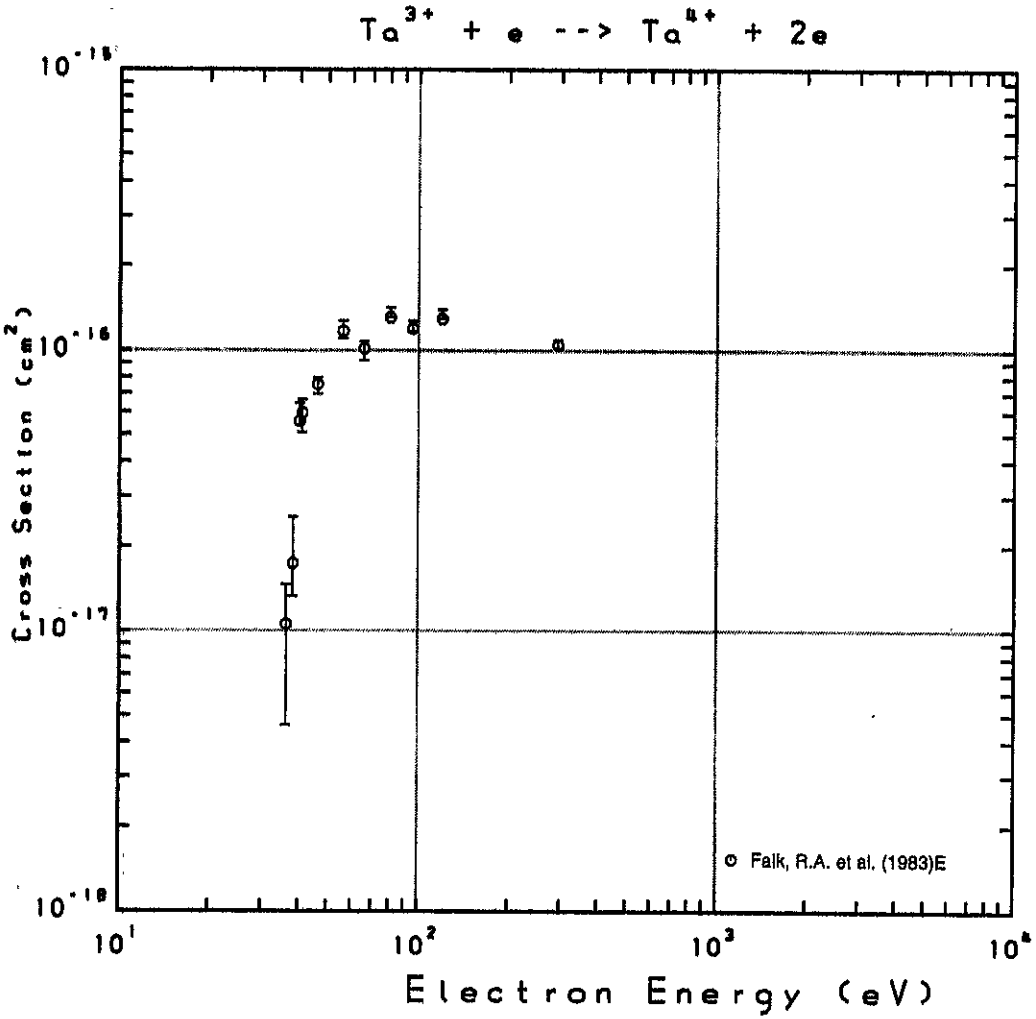

Fig. 403 $Ta^{3+} \rightarrow Ta^{4+}$

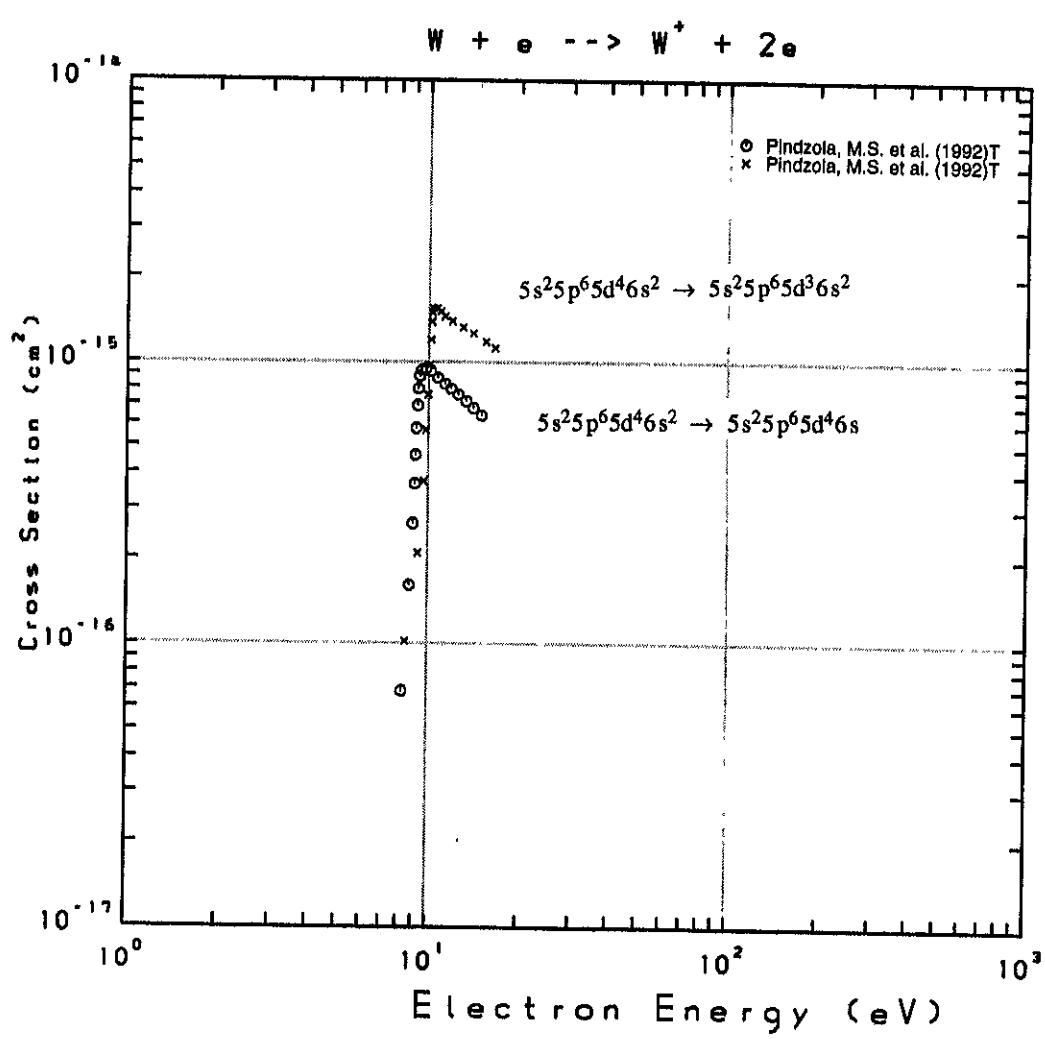

Fig. 404 $W \rightarrow W^{+}$

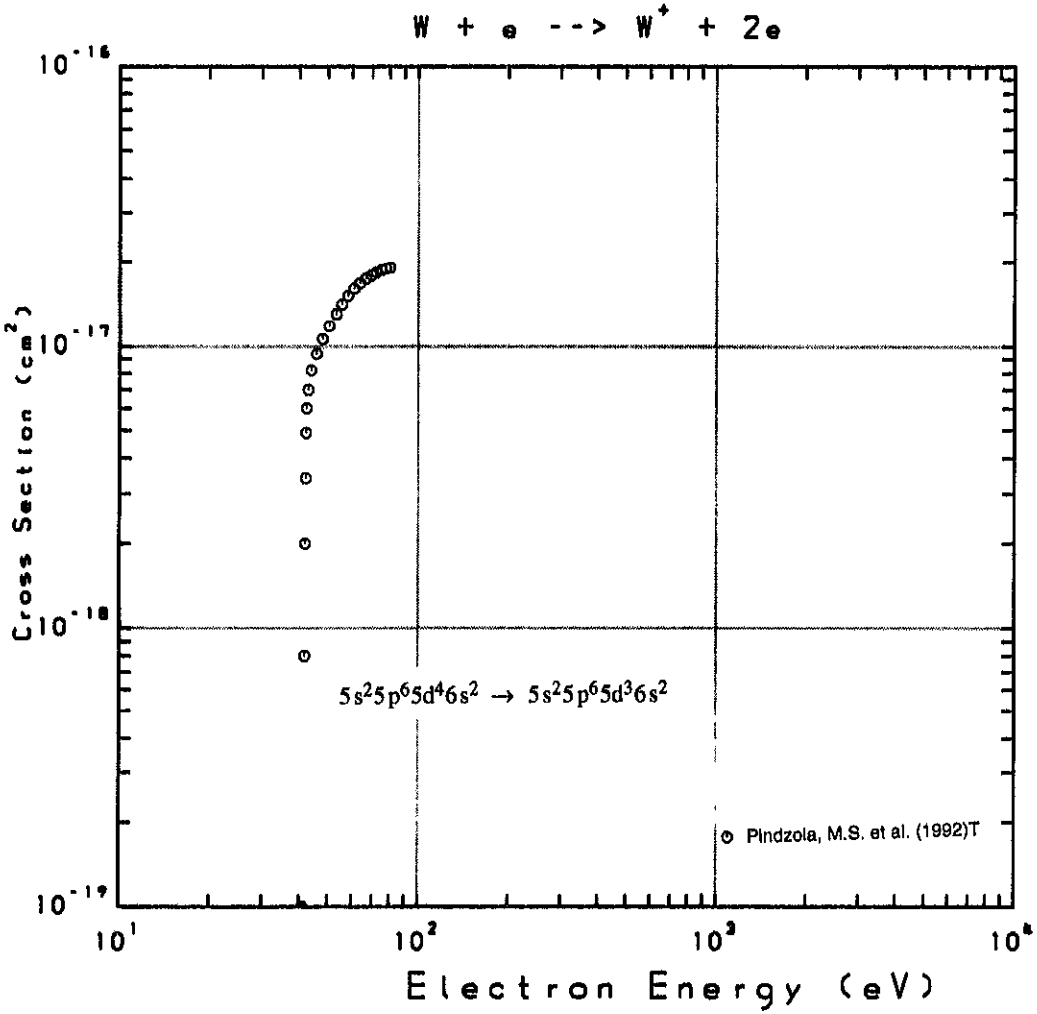

Fig. 405 W → W+

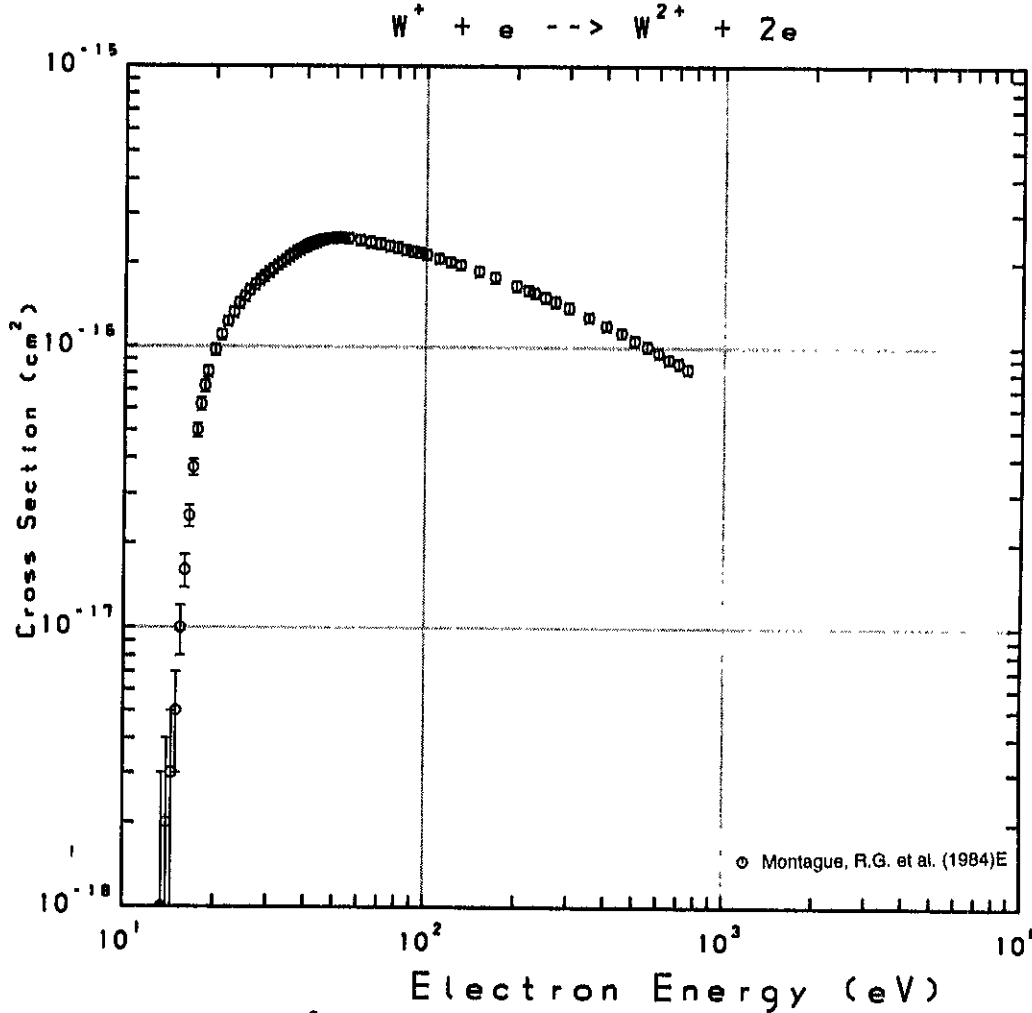

Fig. 406 W+ → W2+

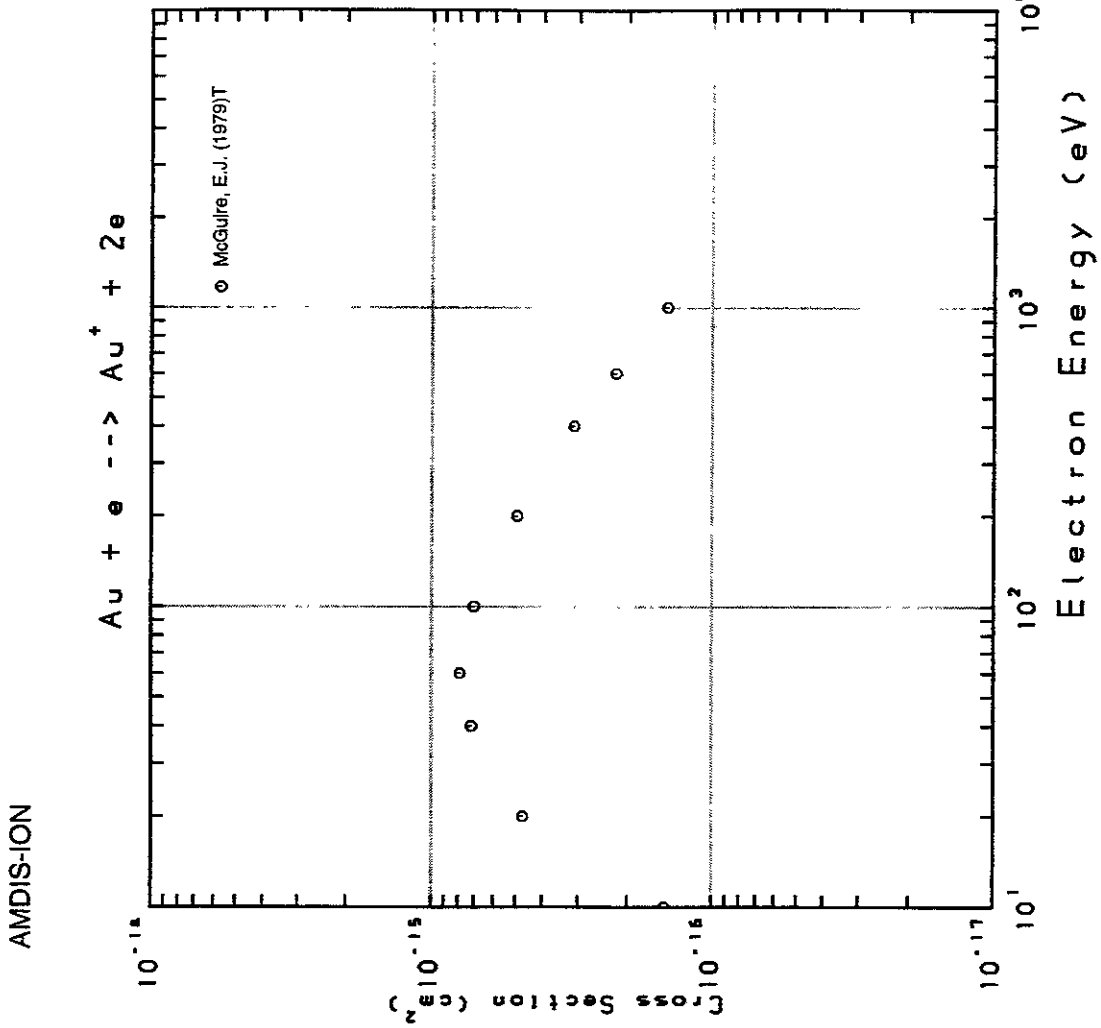

Fig. 408 Au → Au^+

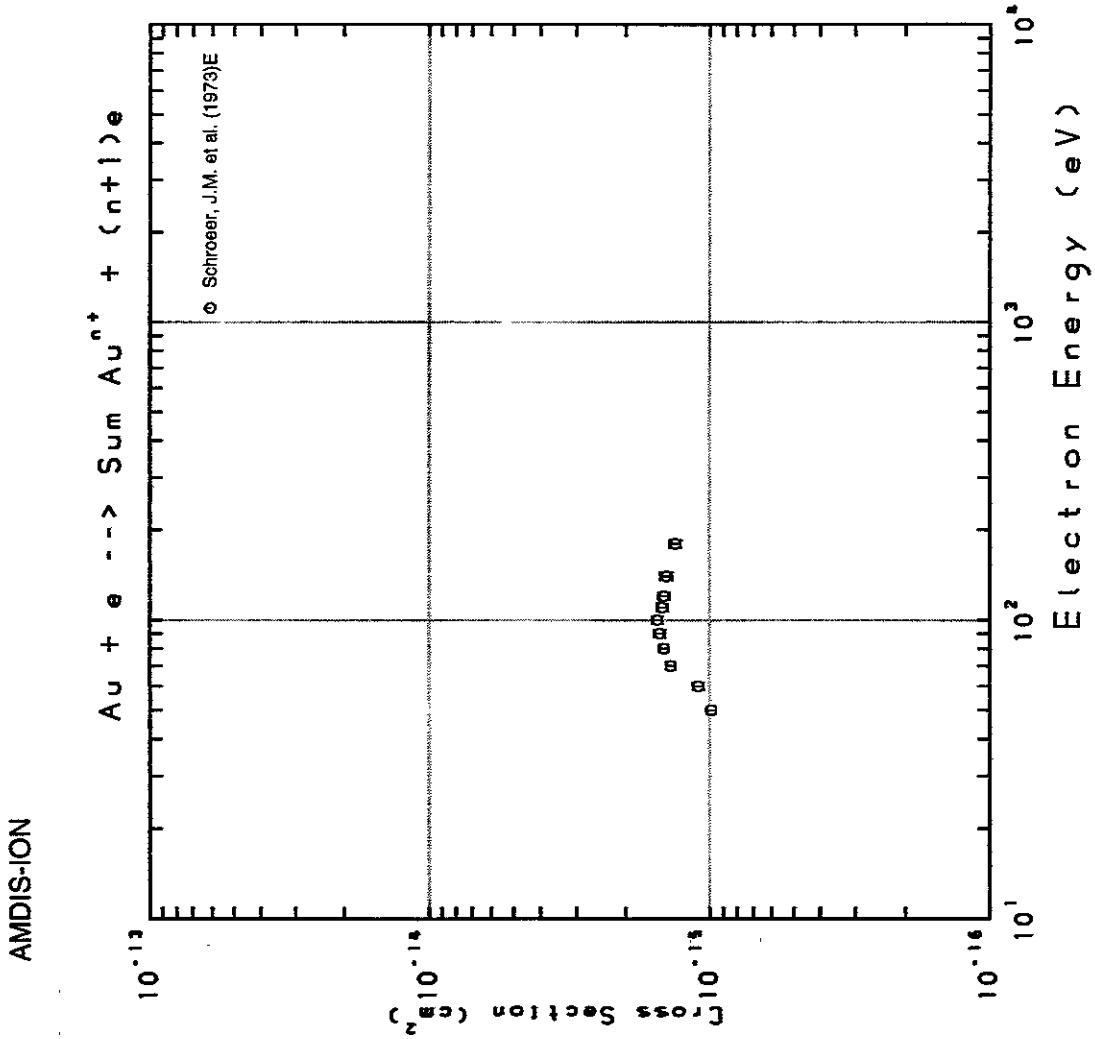

Fig. 407 Au → ΣAu^{n+}

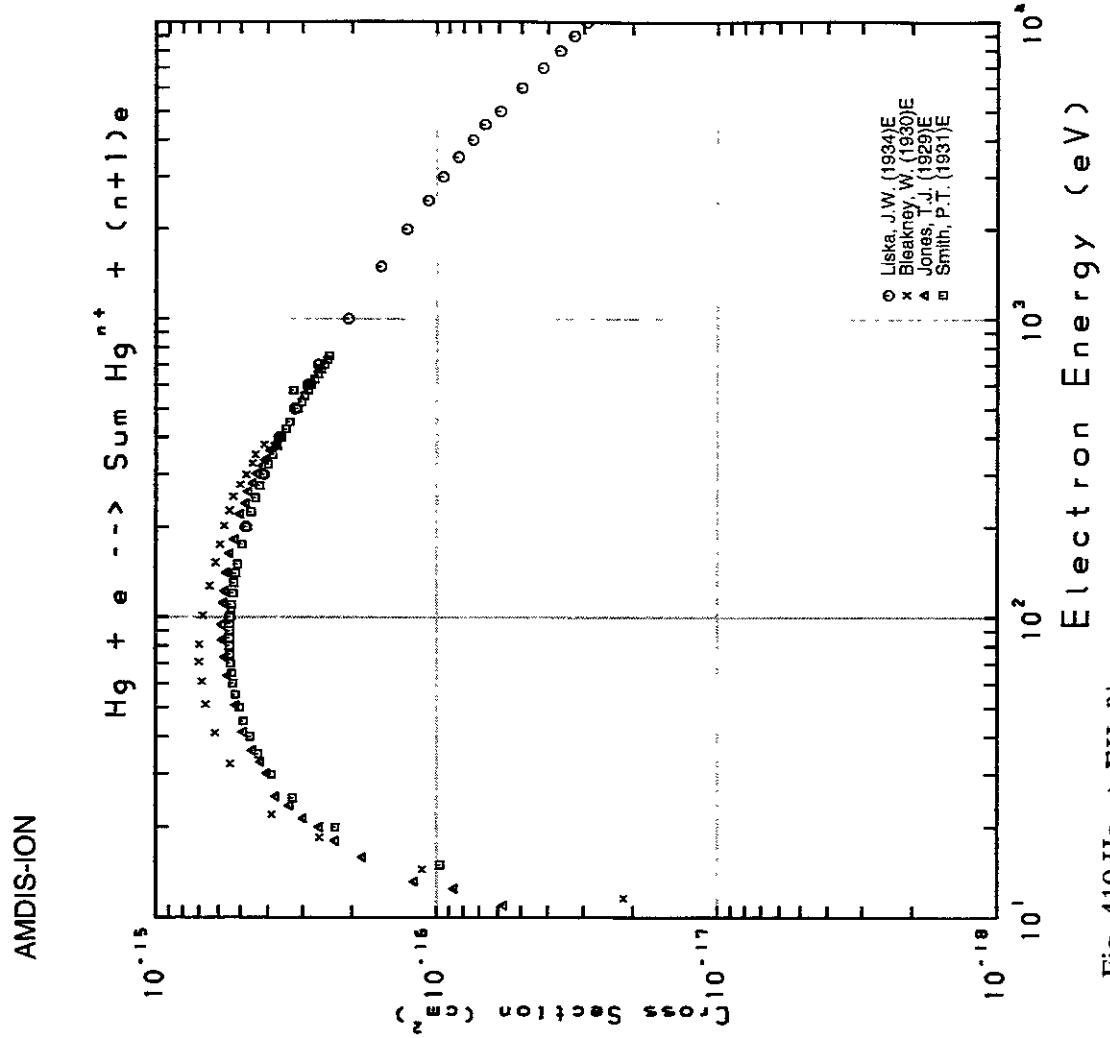

Fig. 410 Hg → ΣHg^{n+}

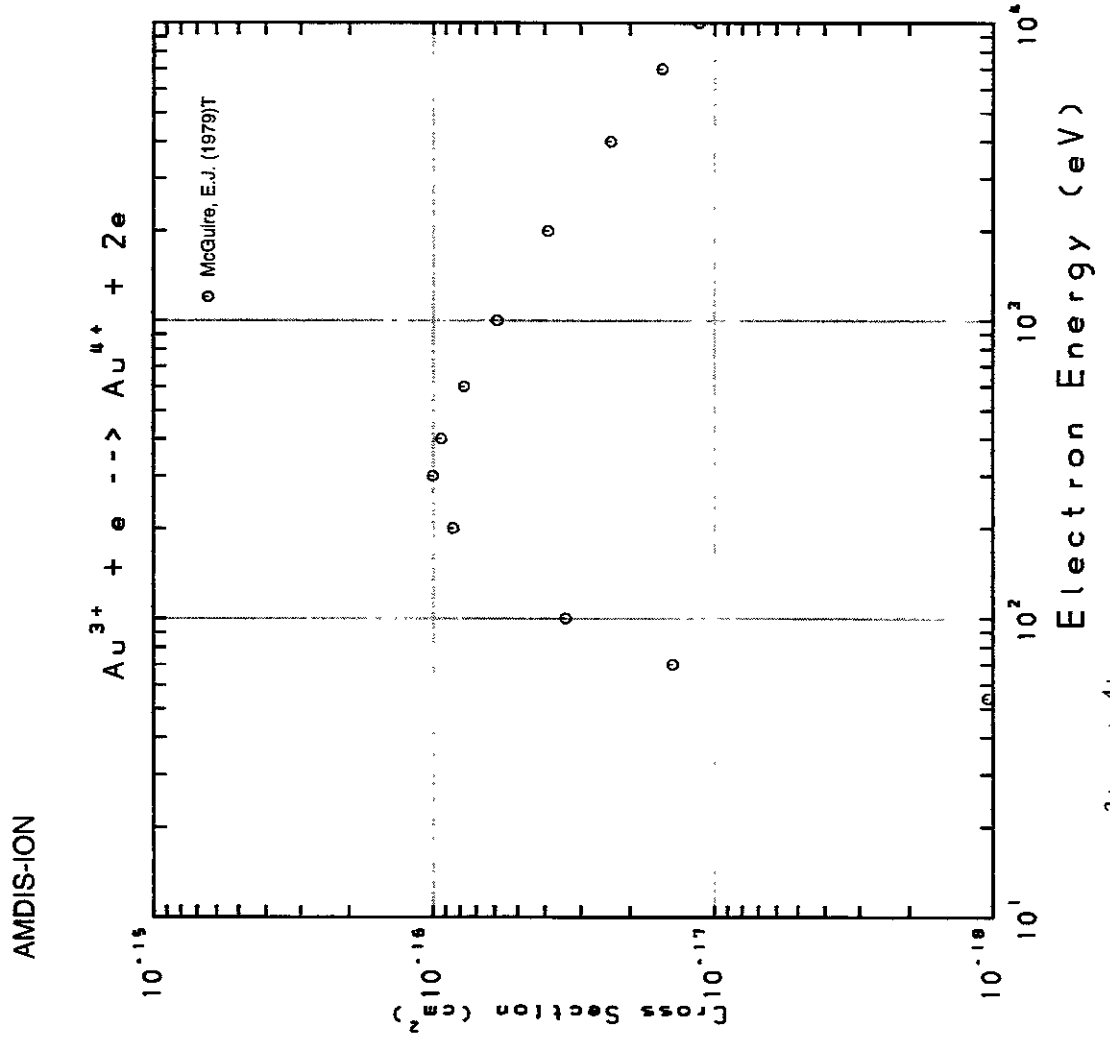

Fig. 409 Au^{3+} → Au^{4+}

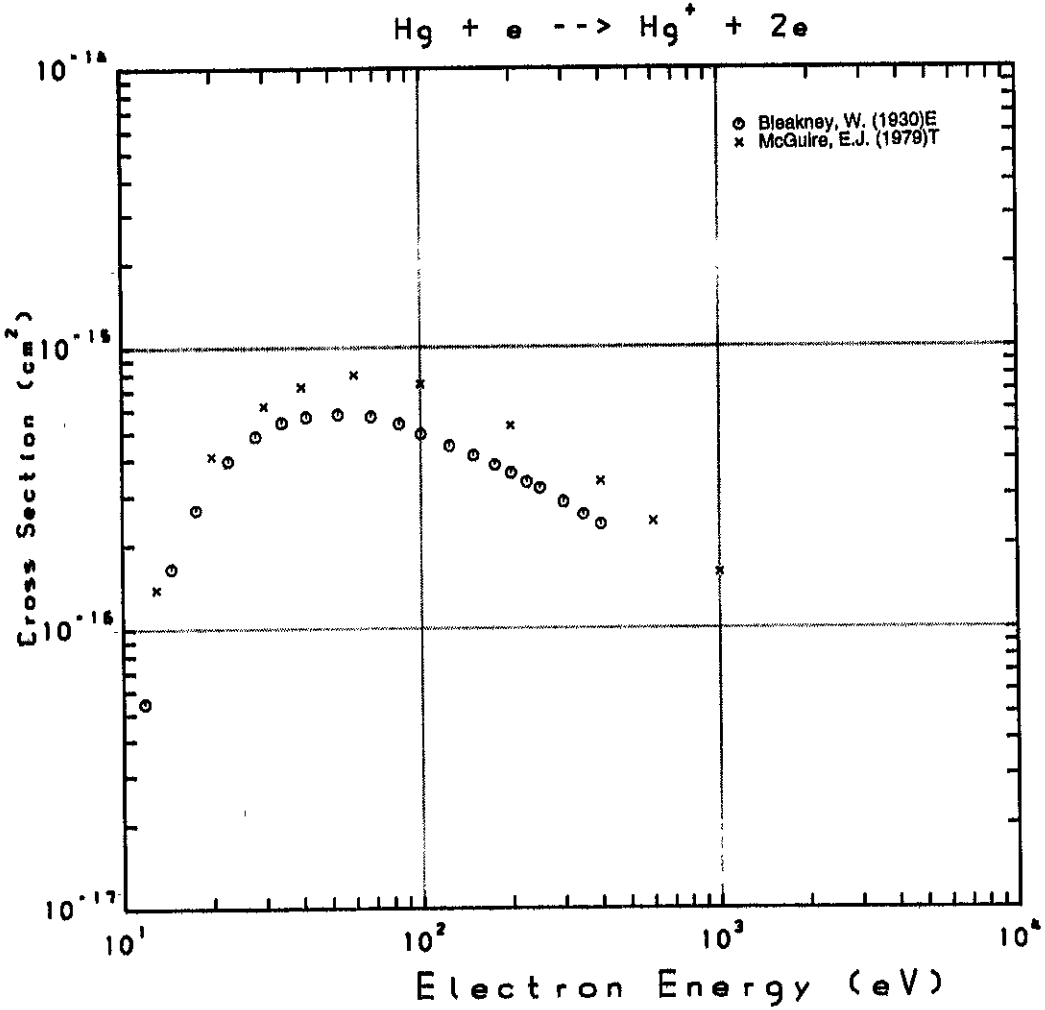

Fig. 411 Hg → Hg^{+}

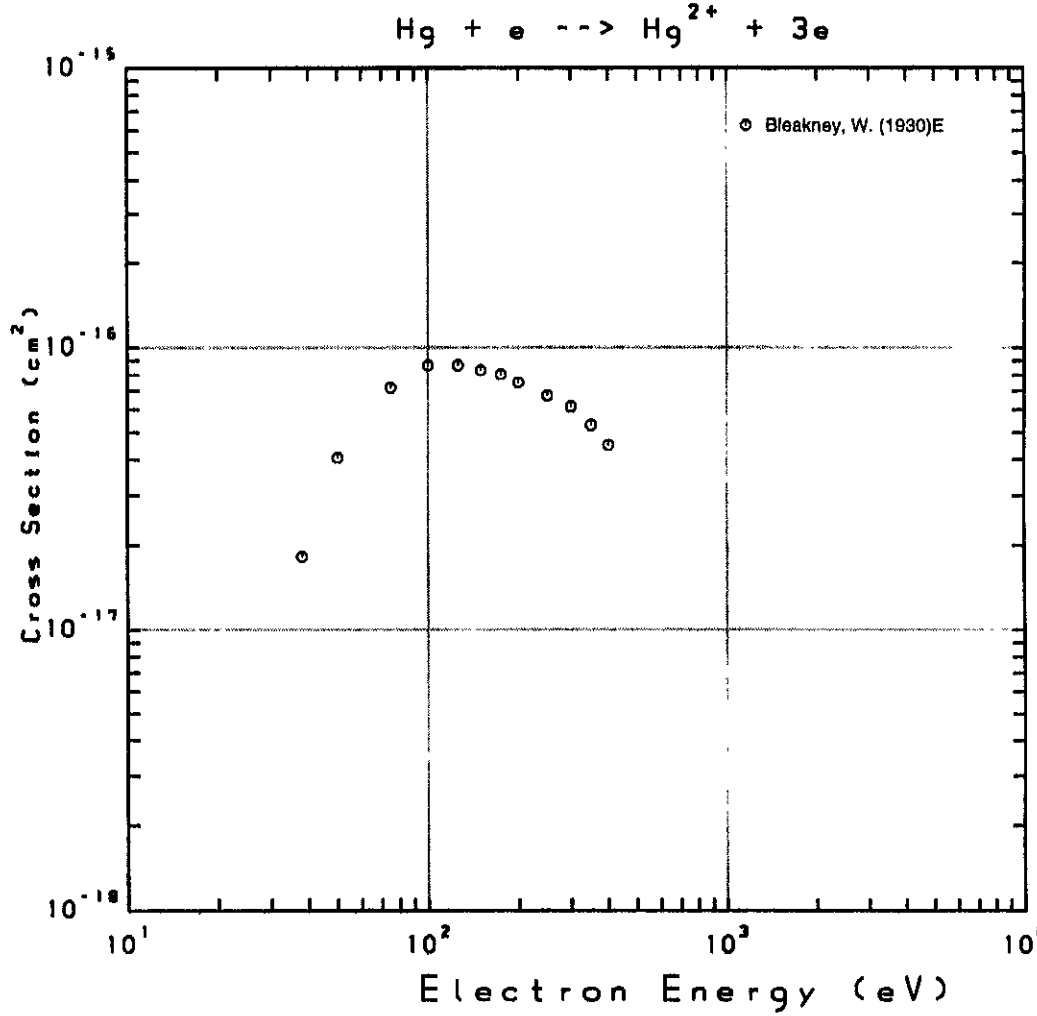

Fig. 412 Hg → Hg^{2+}

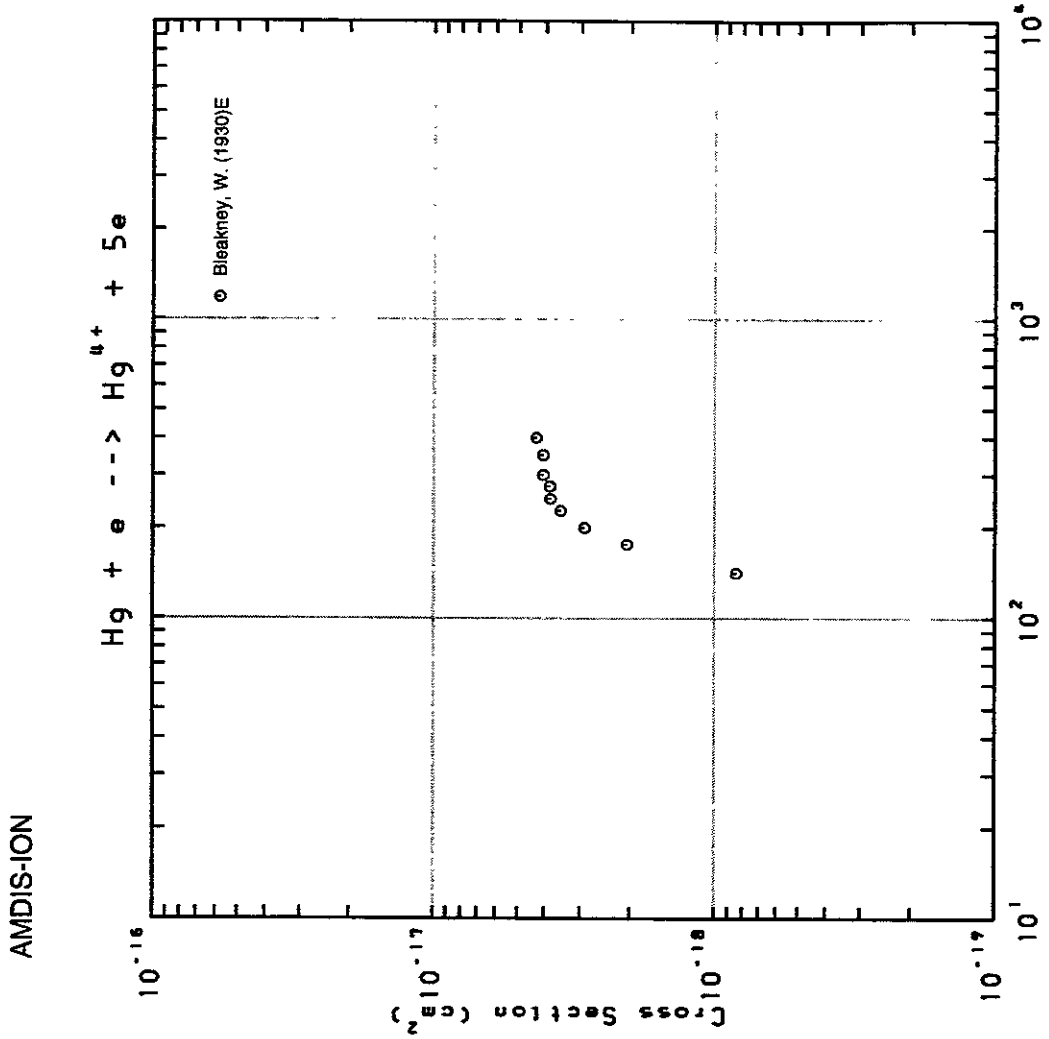

Fig. 414 Hg → Hg^{4+}

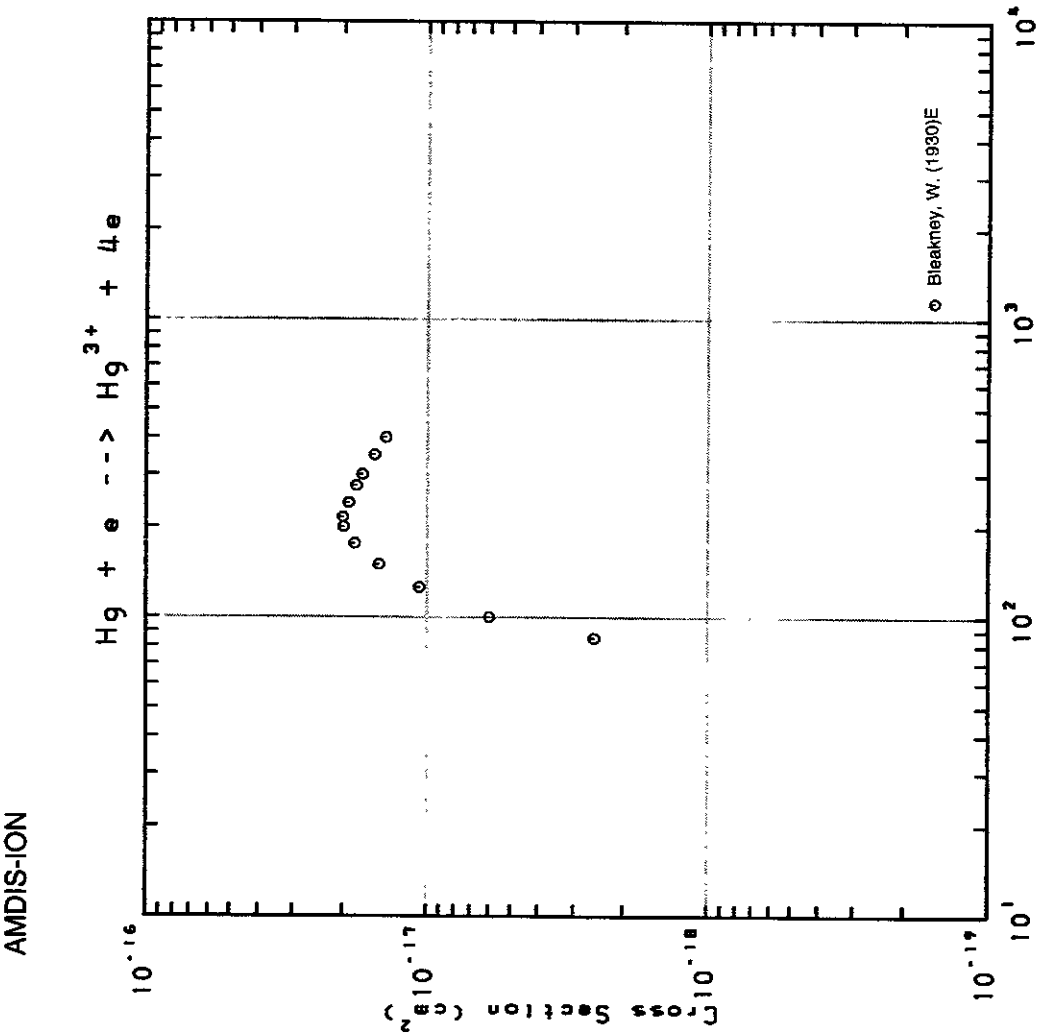

Fig. 413 Hg → Hg^{3+}

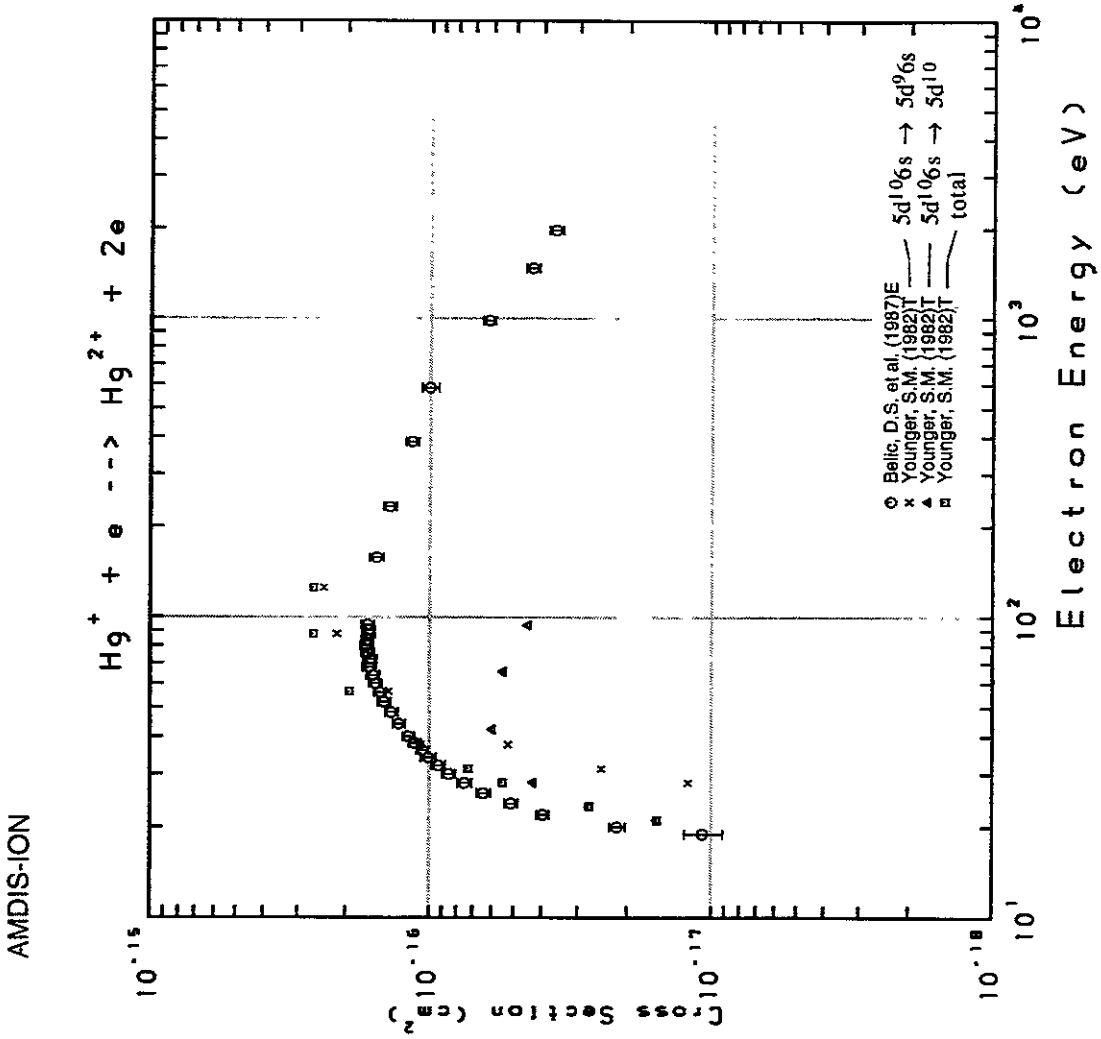

Fig. 415 Hg → Hg^{5+}

Fig. 416 Hg^{+} → Hg^{2+}

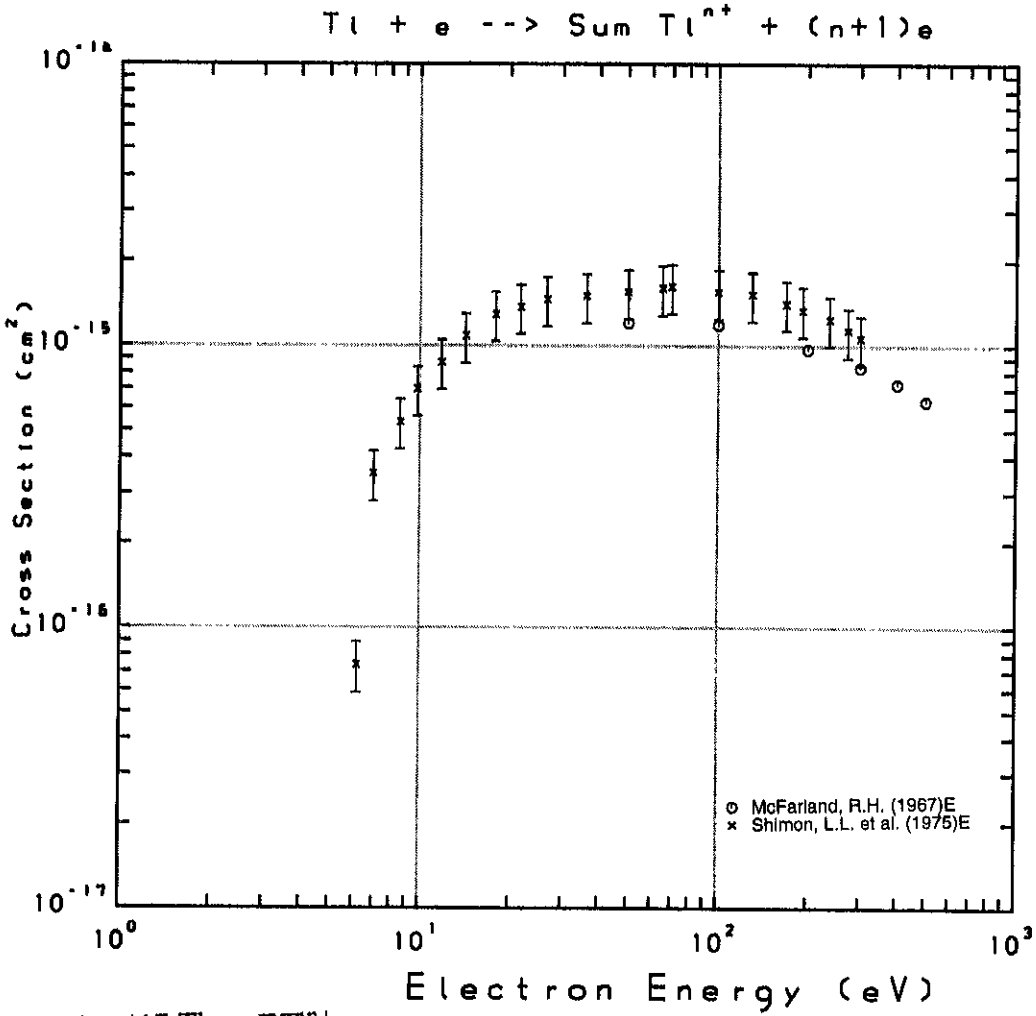

Fig. 417 $Tl \rightarrow \Sigma Tl^{n+}$

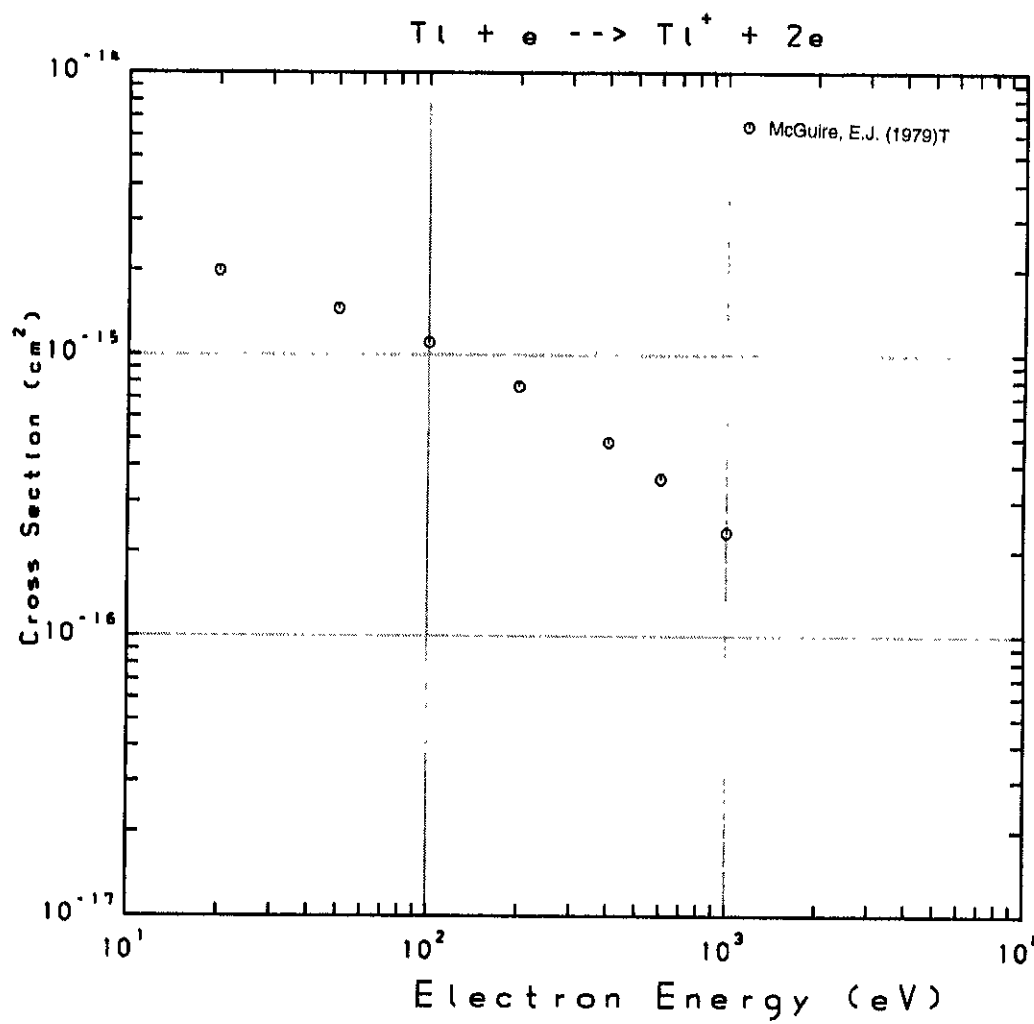

Fig. 418 $Tl \rightarrow Tl^{+}$

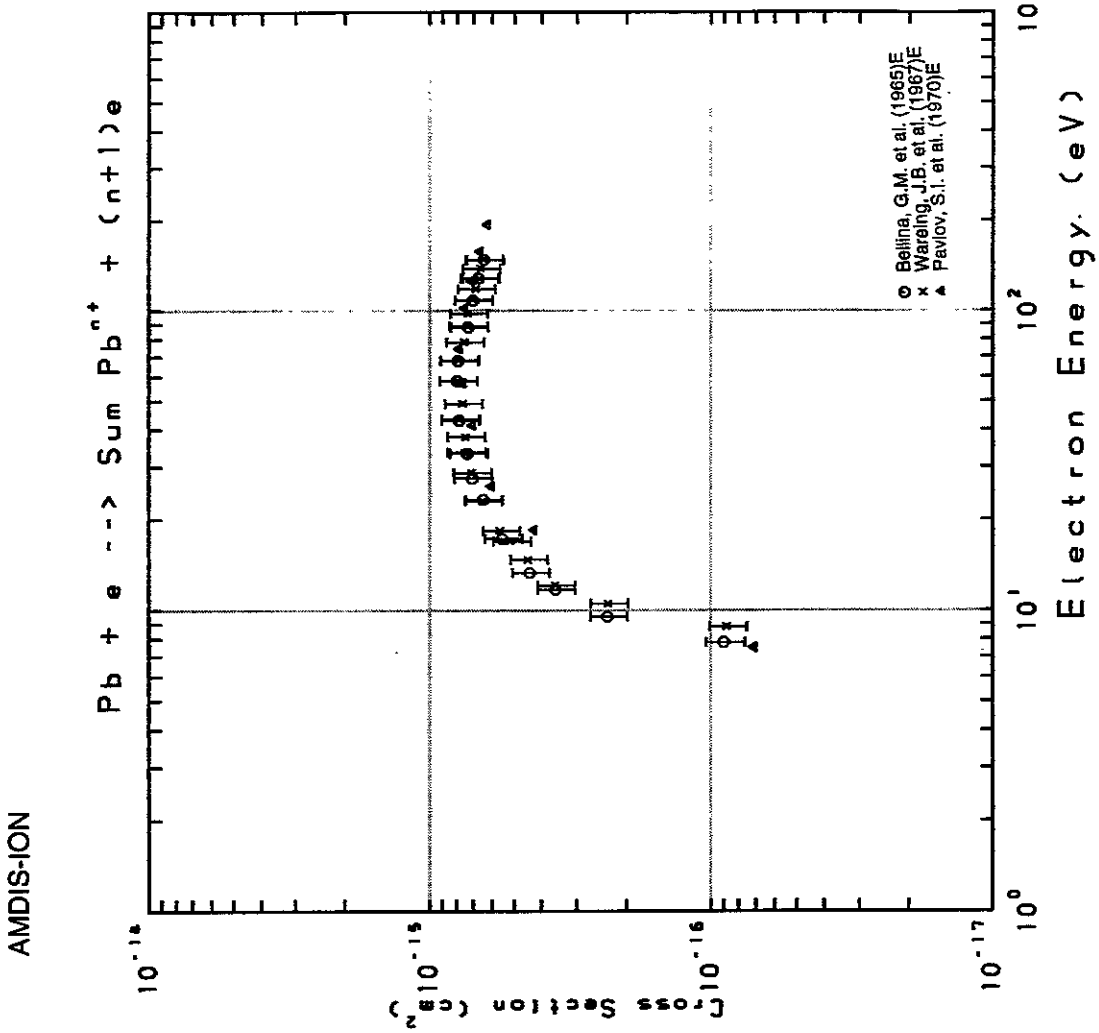

Fig. 420 $Pb \rightarrow \Sigma Pb^{n+}$

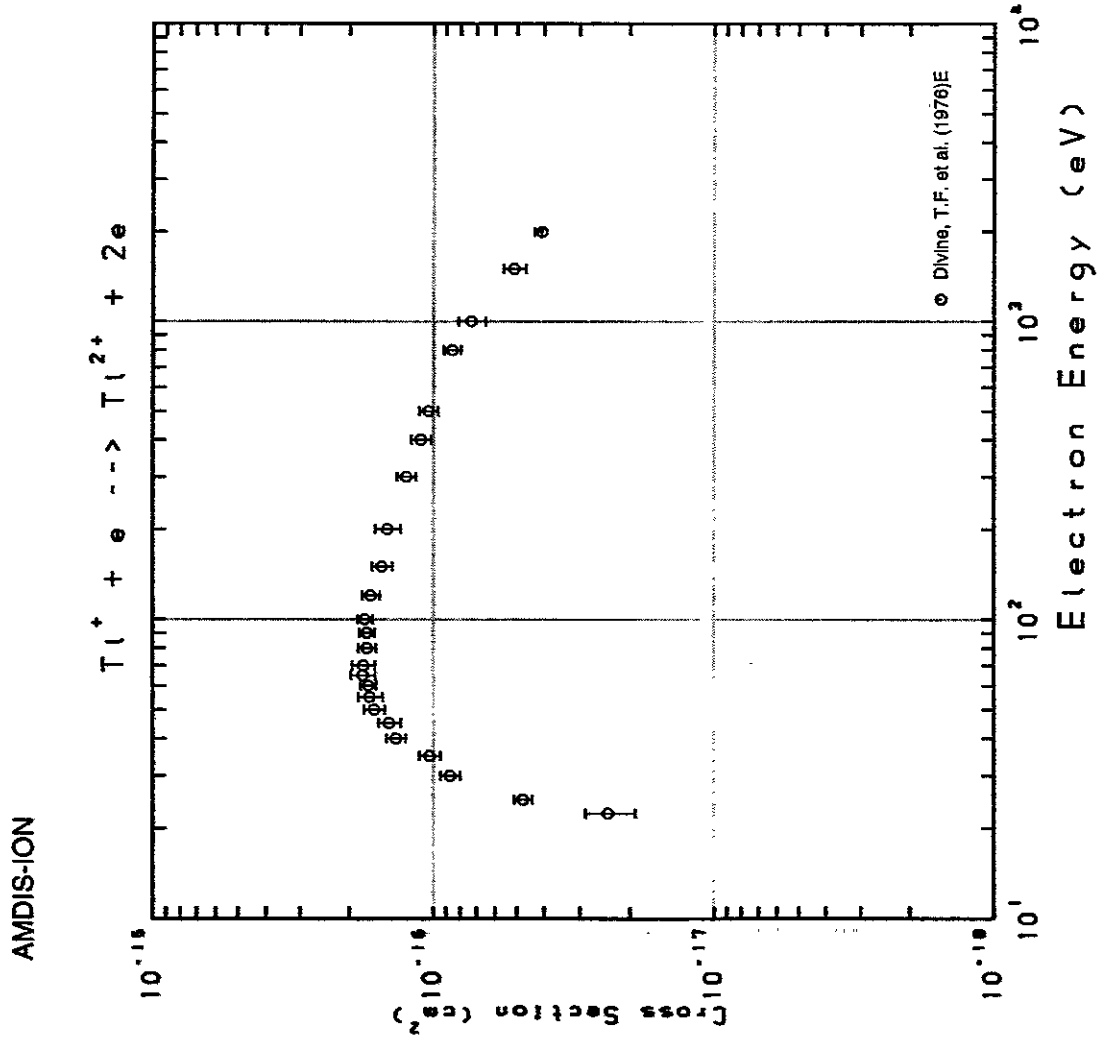

Fig. 419 $Tl^+ \rightarrow Tl^{2+}$

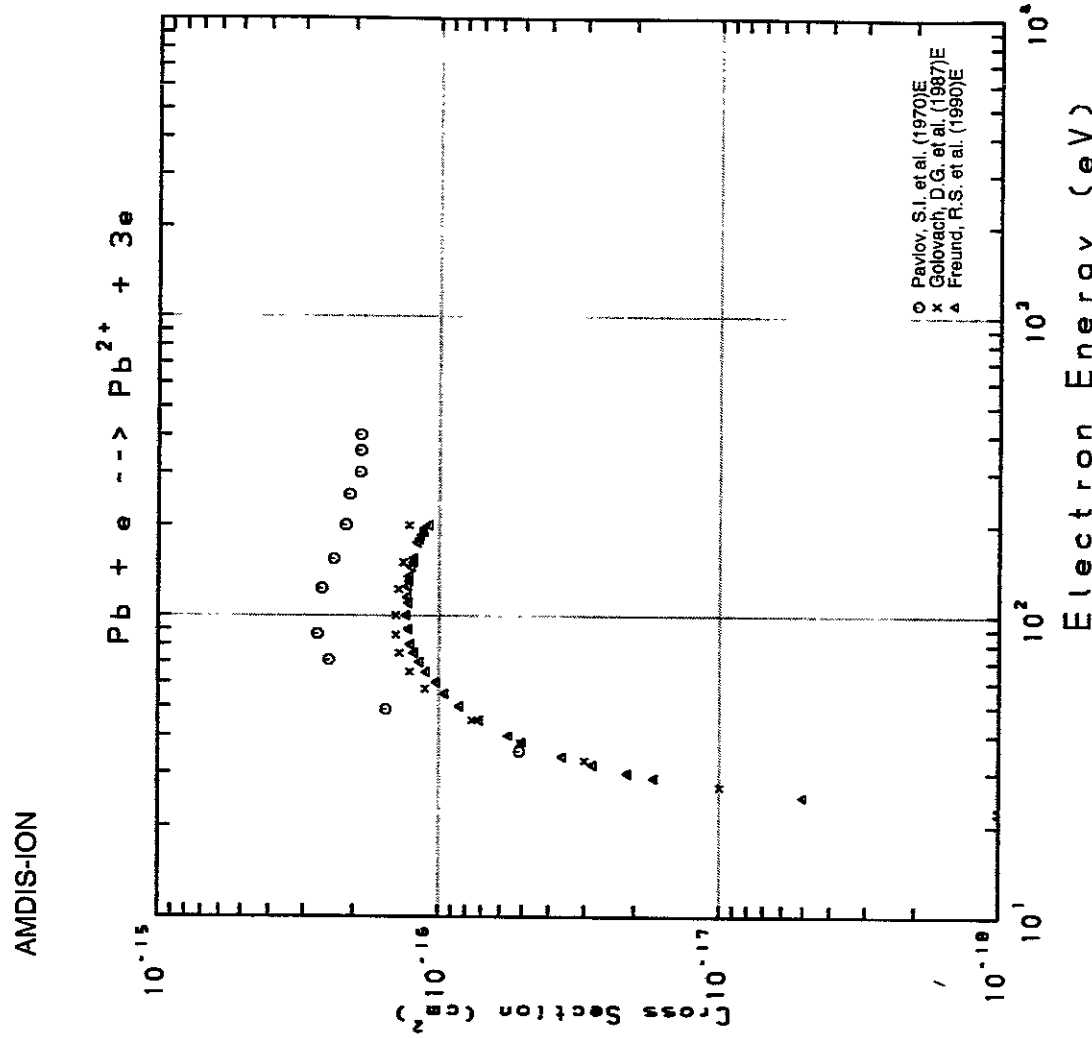

Fig. 422 Pb → Pb^{2+}

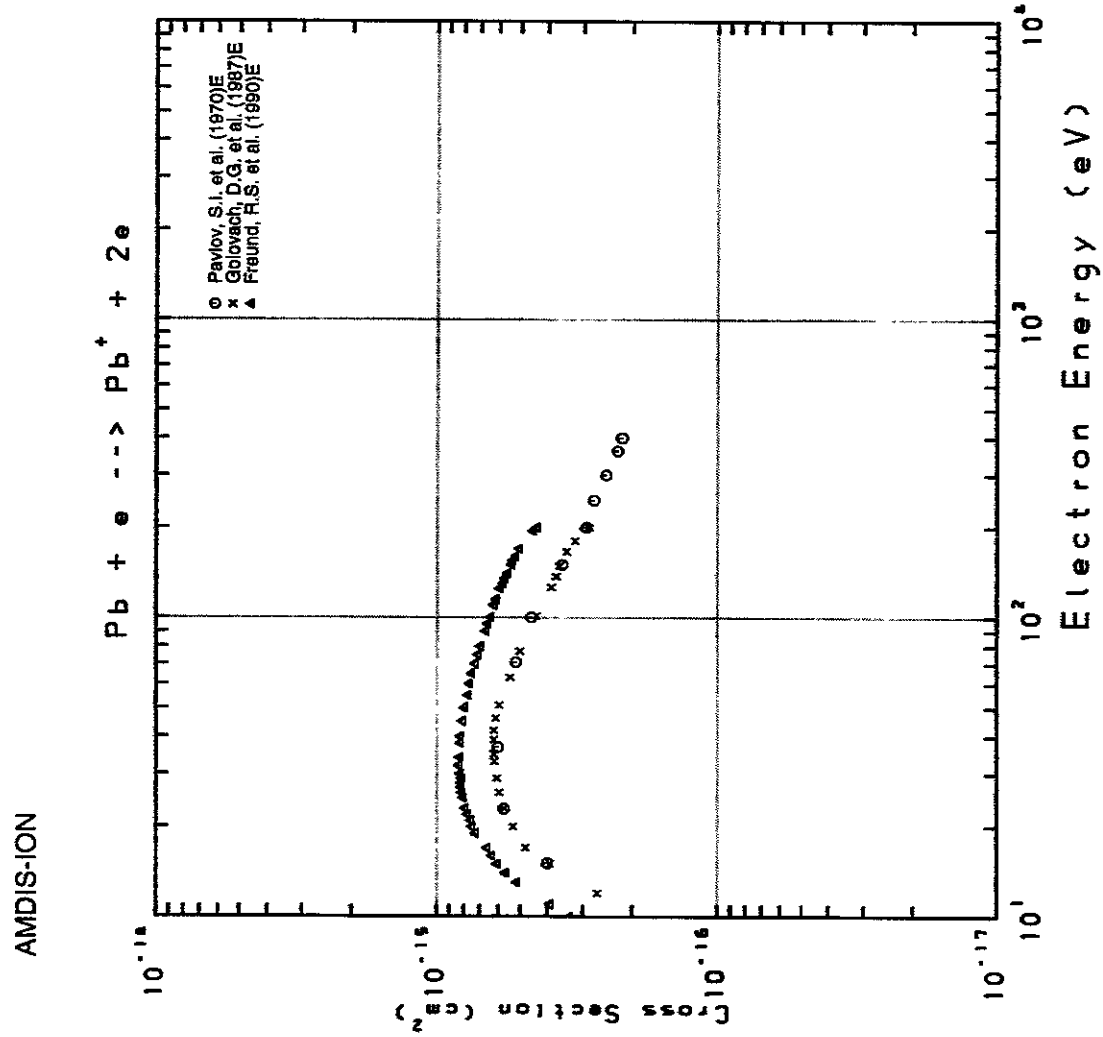

Fig. 421 Pb → Pb^{+}

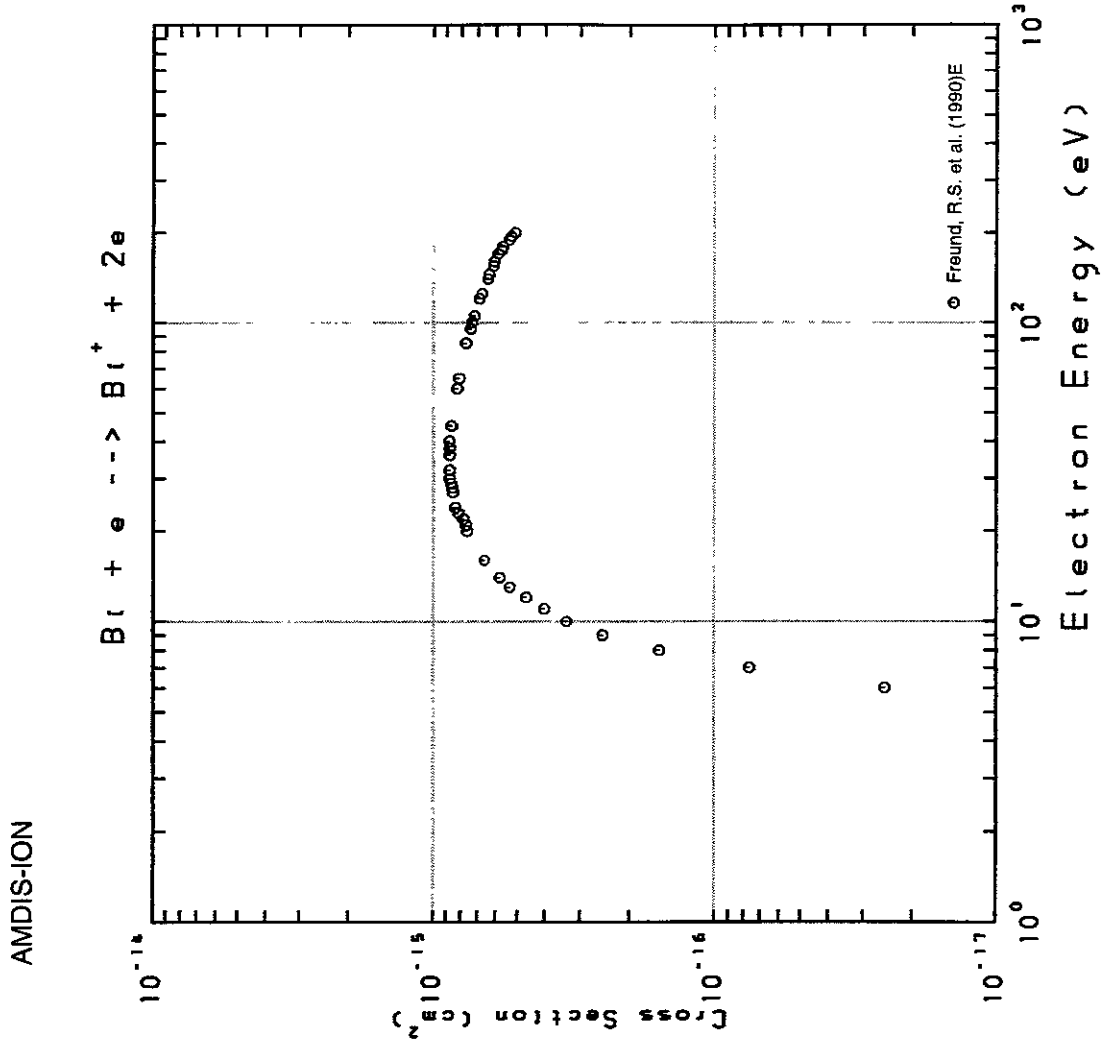

Fig. 424 Bi → Bi^+

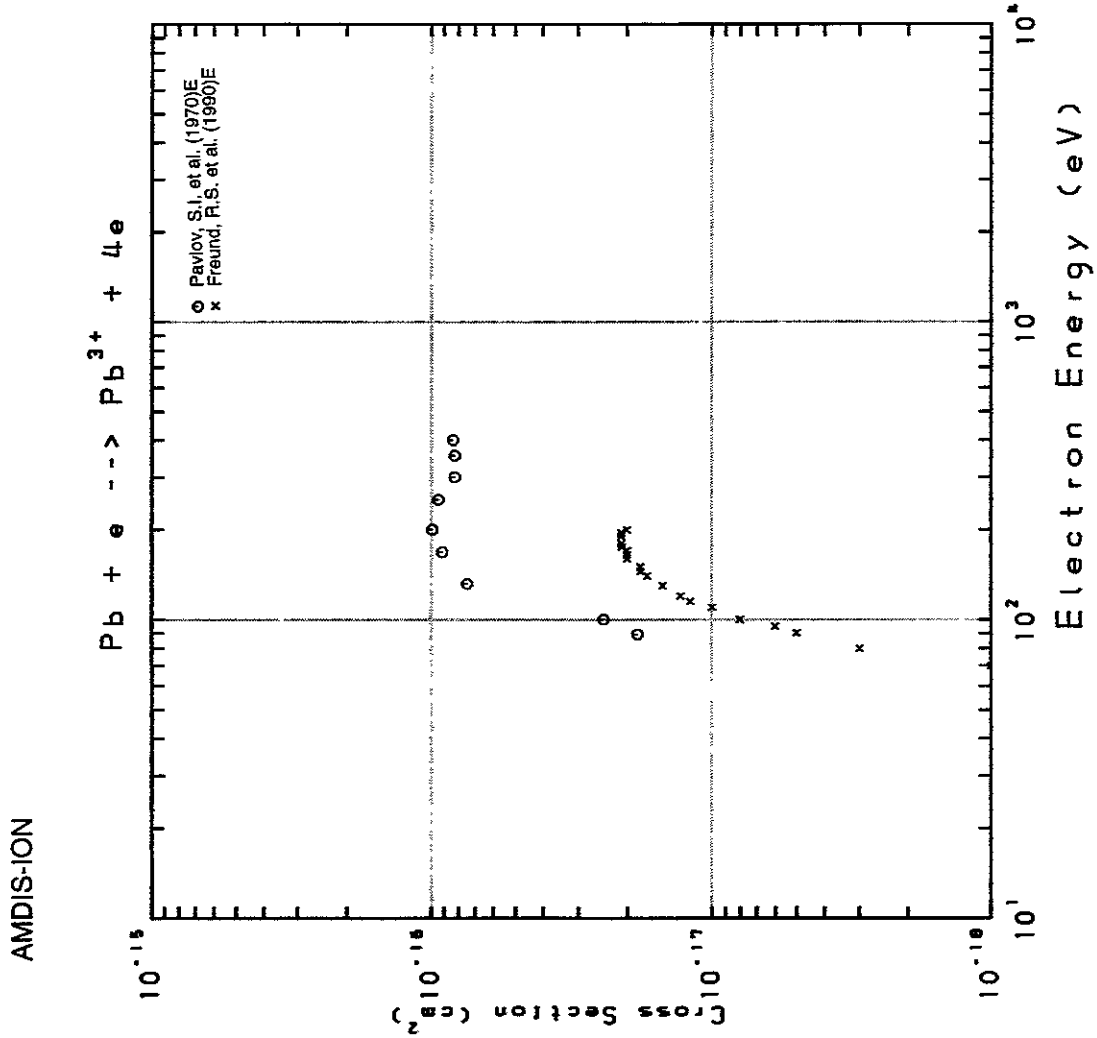

Fig. 423 Pb → Pb^{3+}

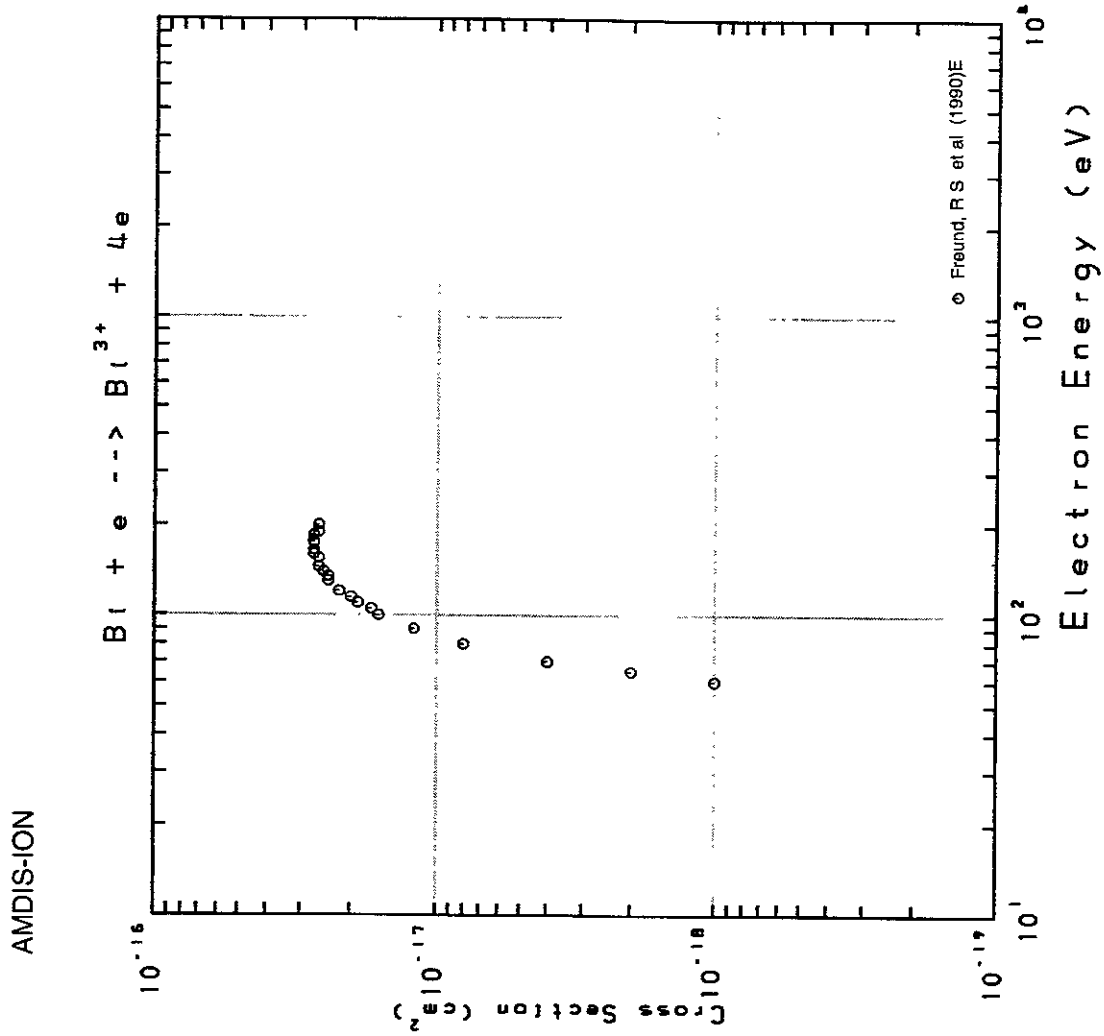

Fig. 426 Bi → Bi^{3+}

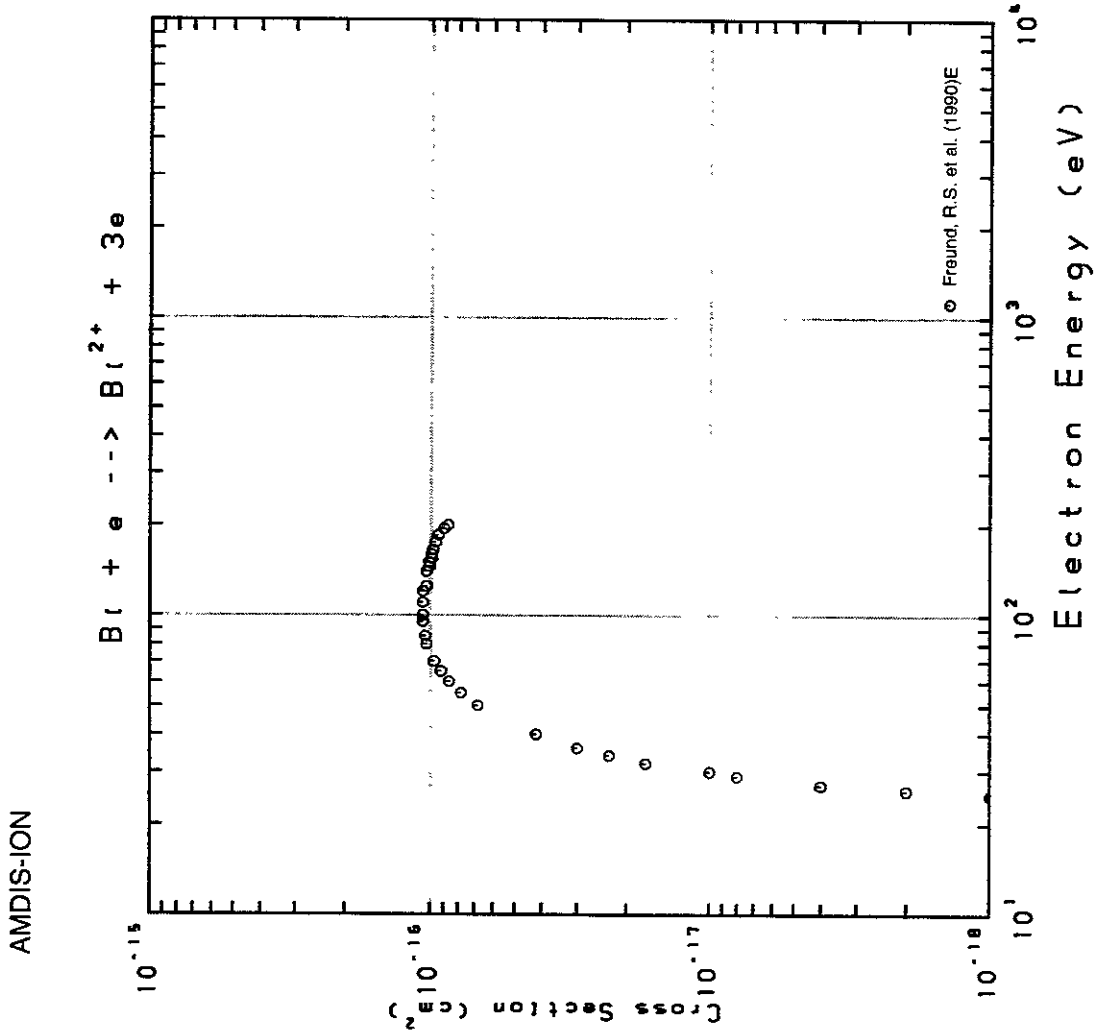

Fig. 425 Bi → Bi^{2+}

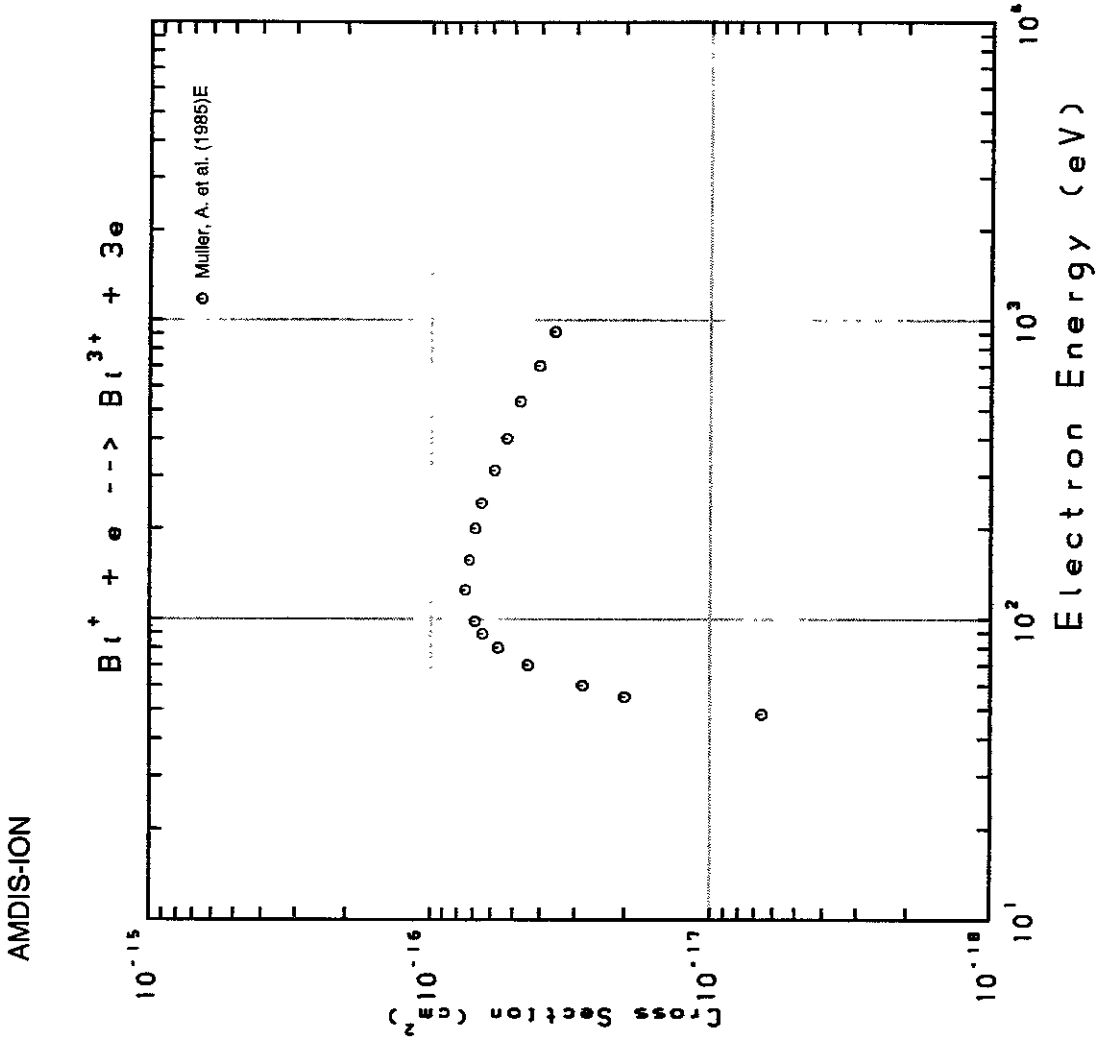

Fig. 428 $Bi^{+} \rightarrow Bi^{3+}$

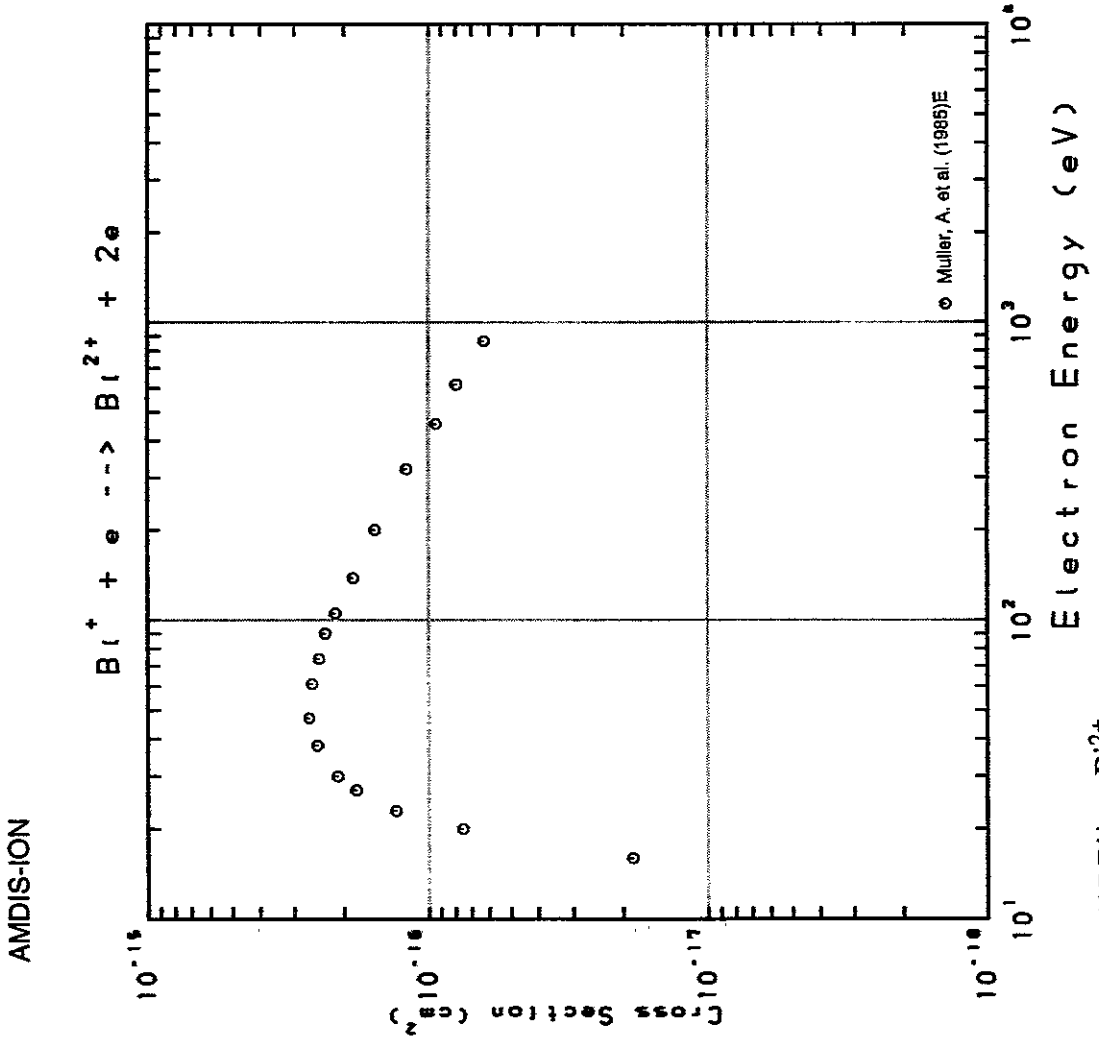

Fig. 427 $Bi^{+} \rightarrow Bi^{2+}$

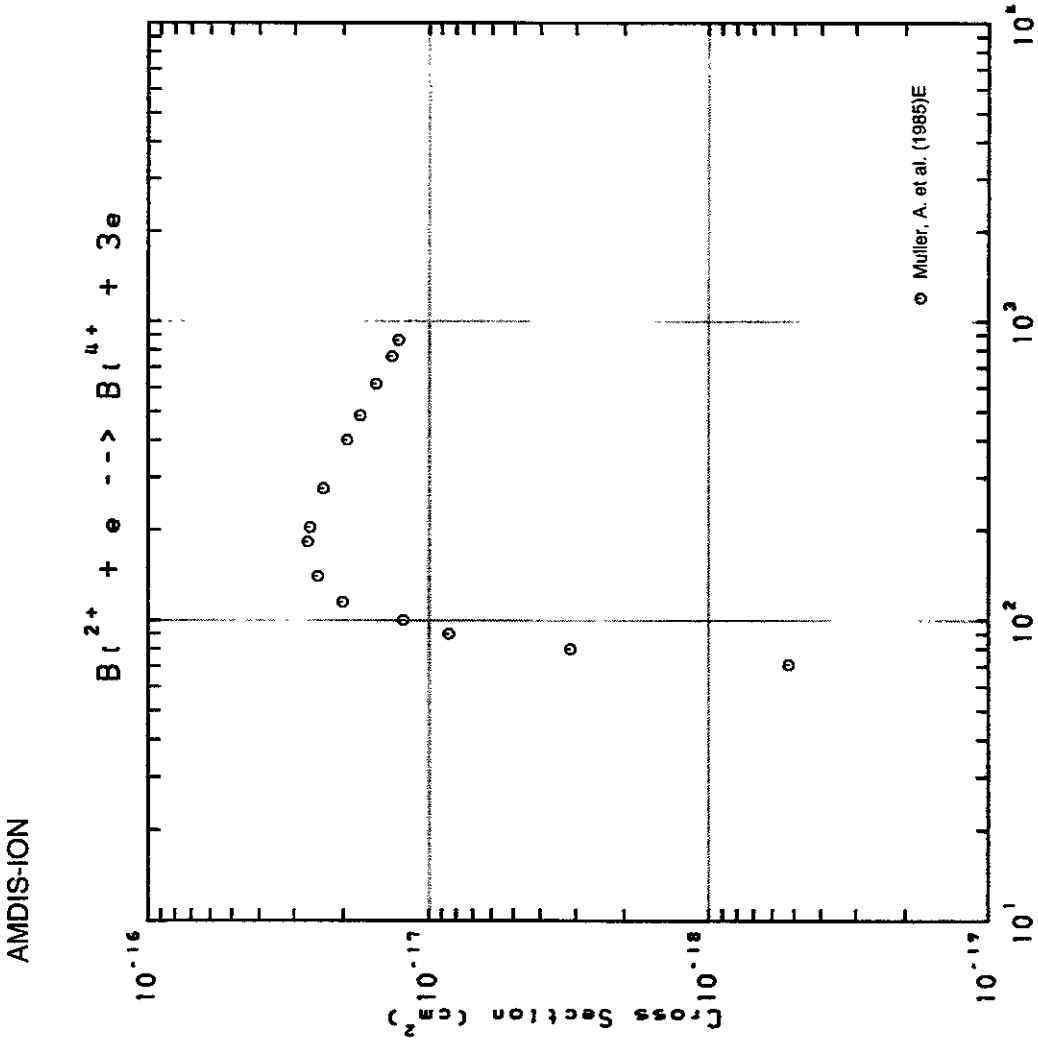

Fig. 430 $Bi^{2+} \rightarrow Bi^{4+}$

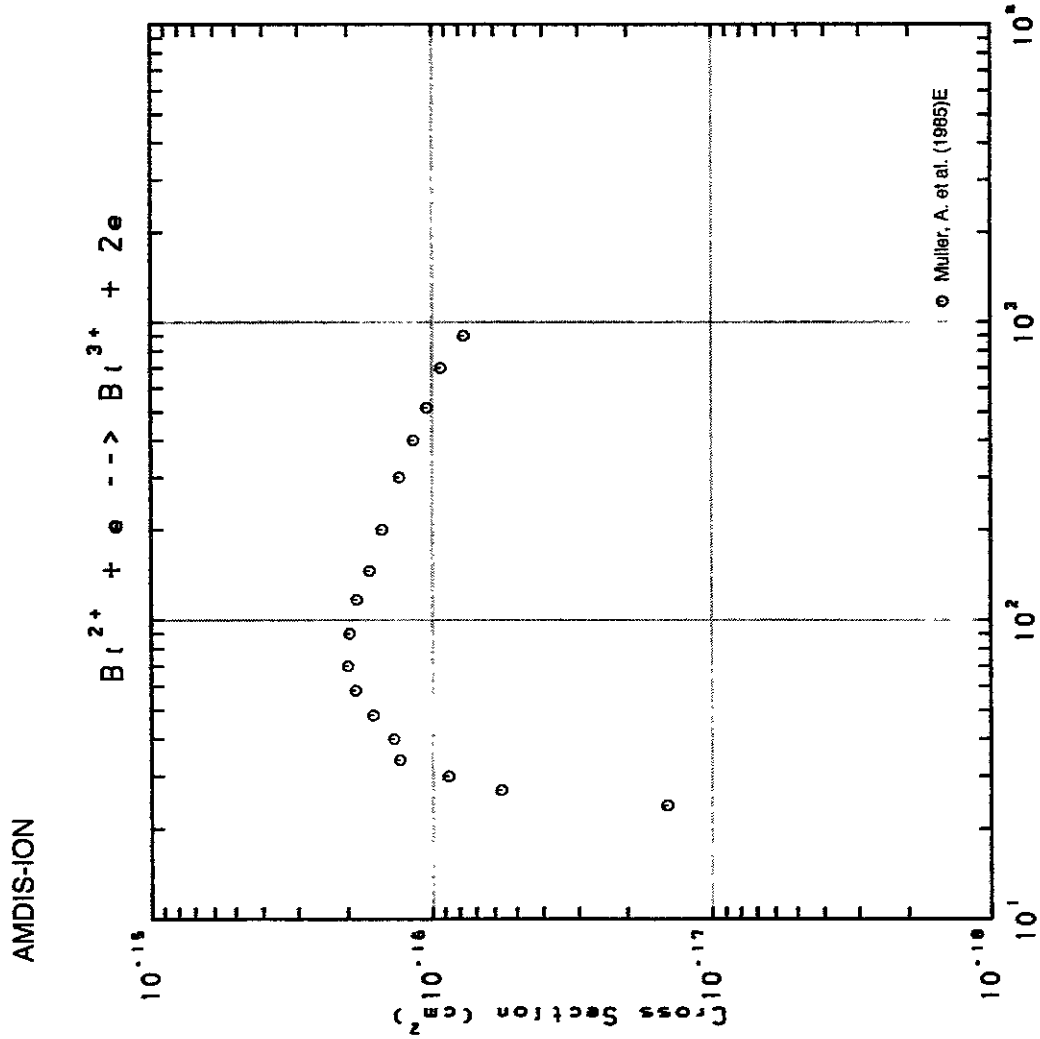

Fig. 429 $Bi^{2+} \rightarrow Bi^{3+}$

AMDIS-ION

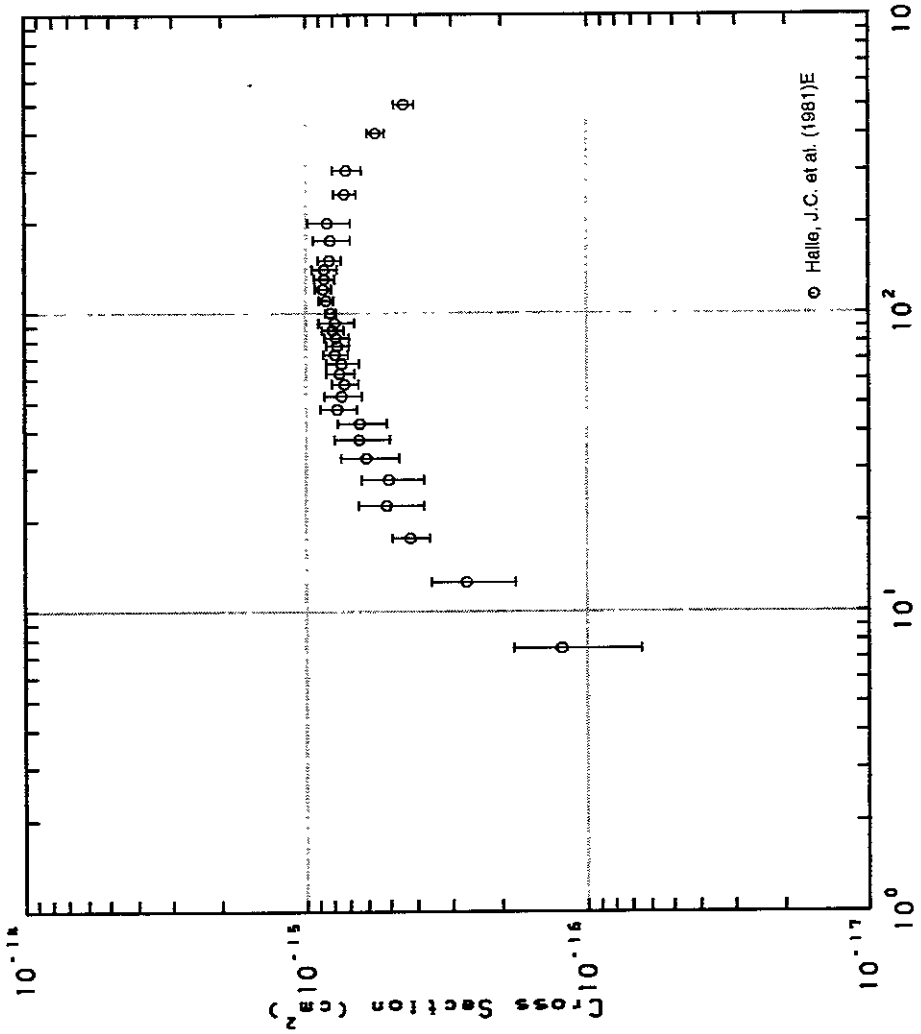

Fig. 432 $U \rightarrow \Sigma U^{m+}$

AMDIS-ION

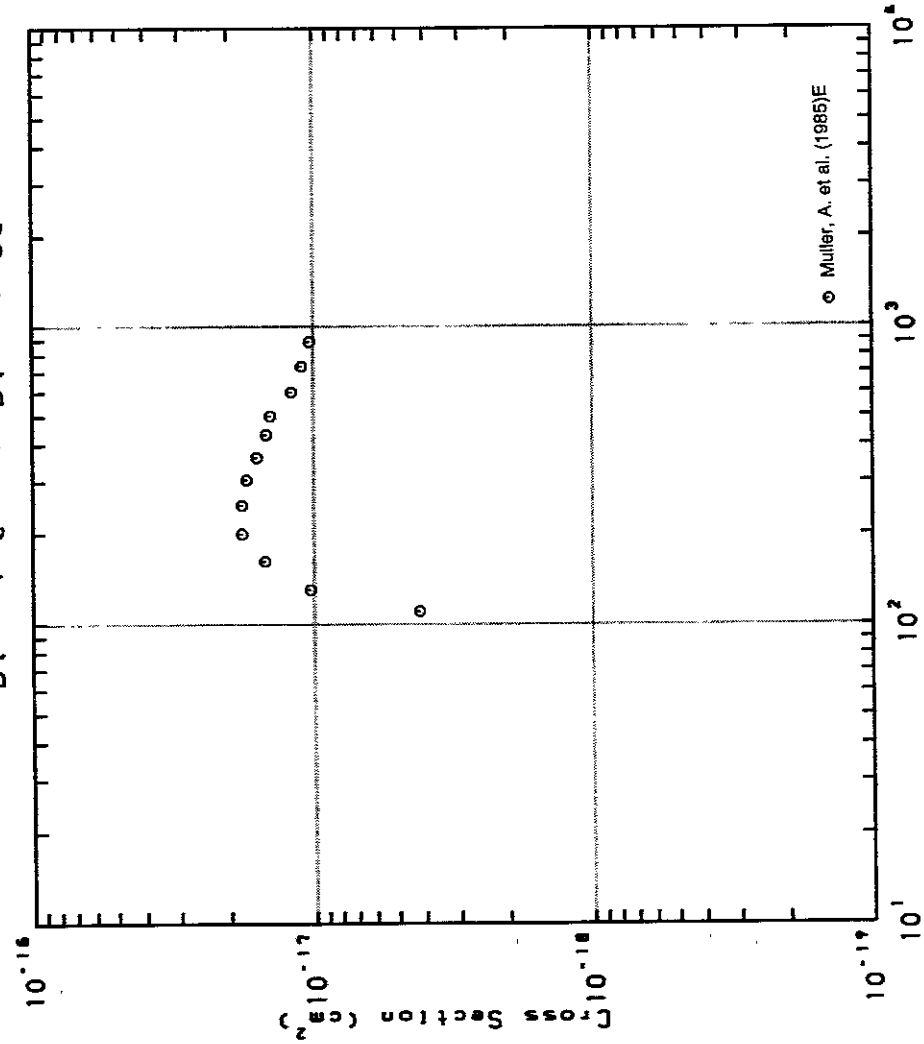

Fig. 431 $Bi^{3+} \rightarrow Bi^{5+}$

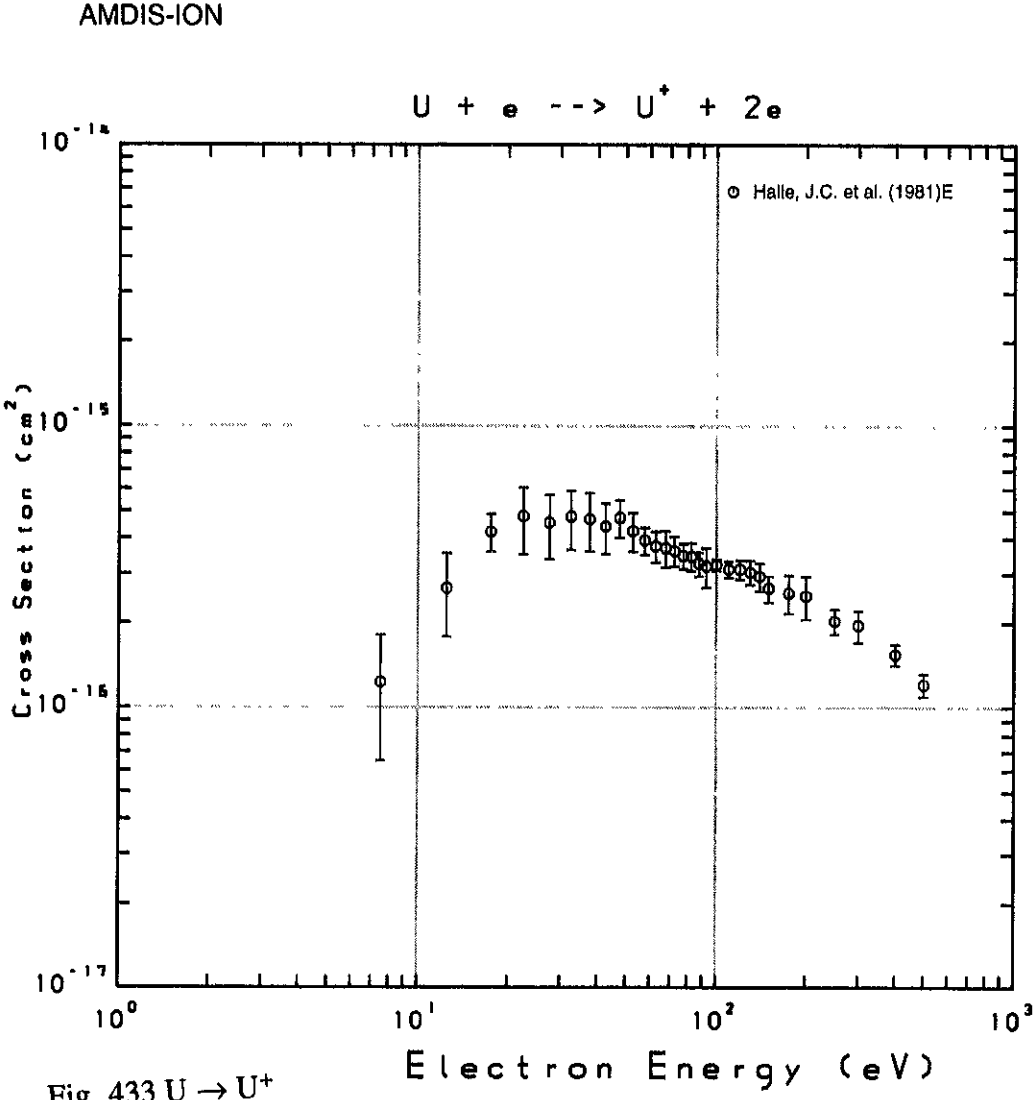

Fig. 433 U → U^{+}

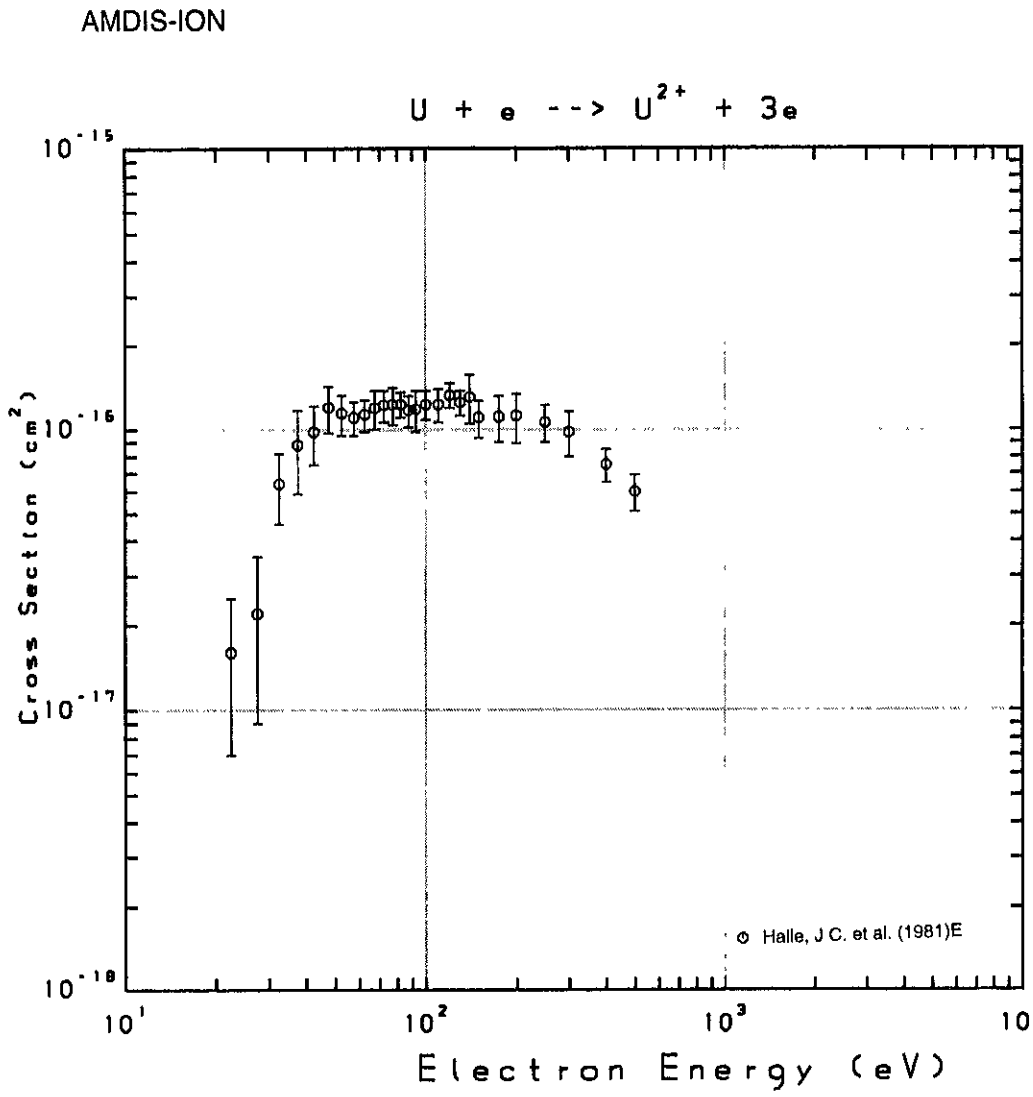

Fig. 434 U → U^{2+}

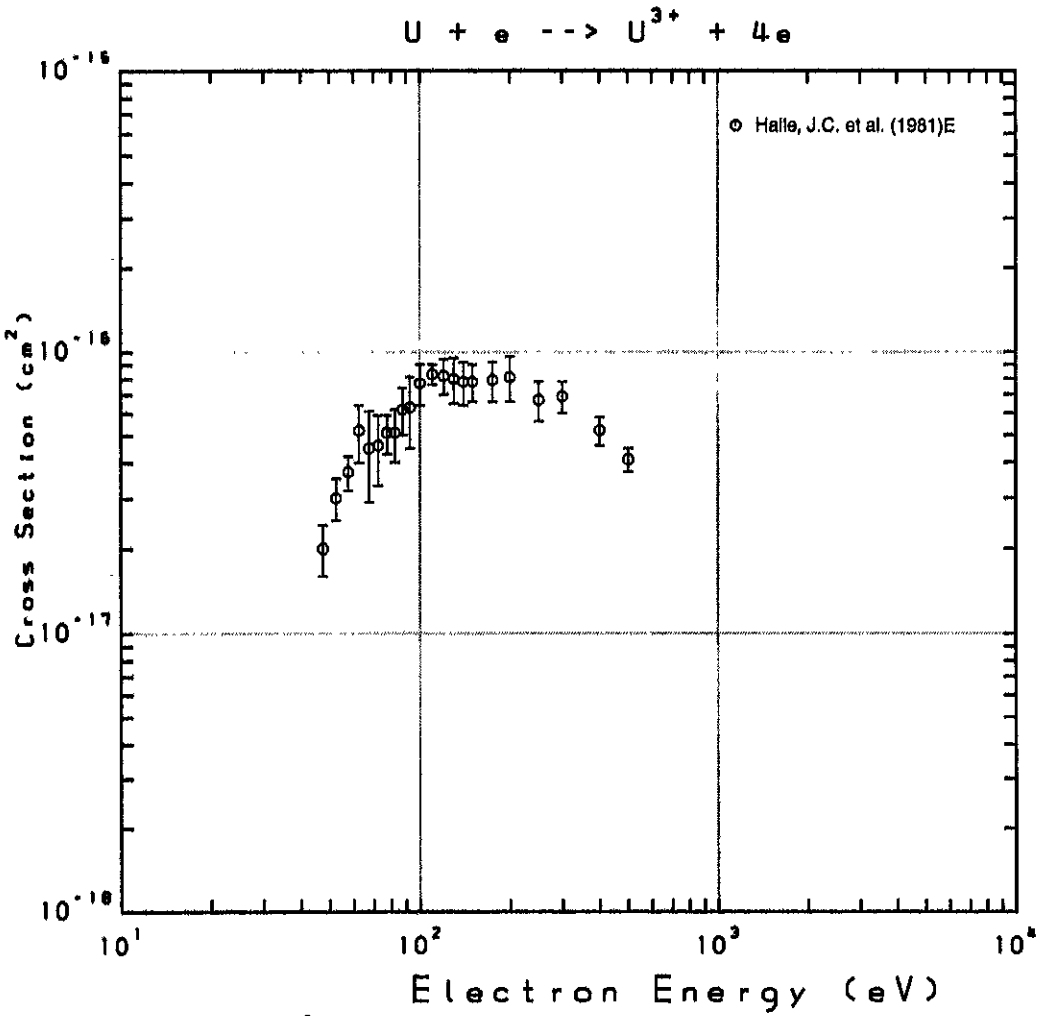

Fig. 435 U → U^{3+}

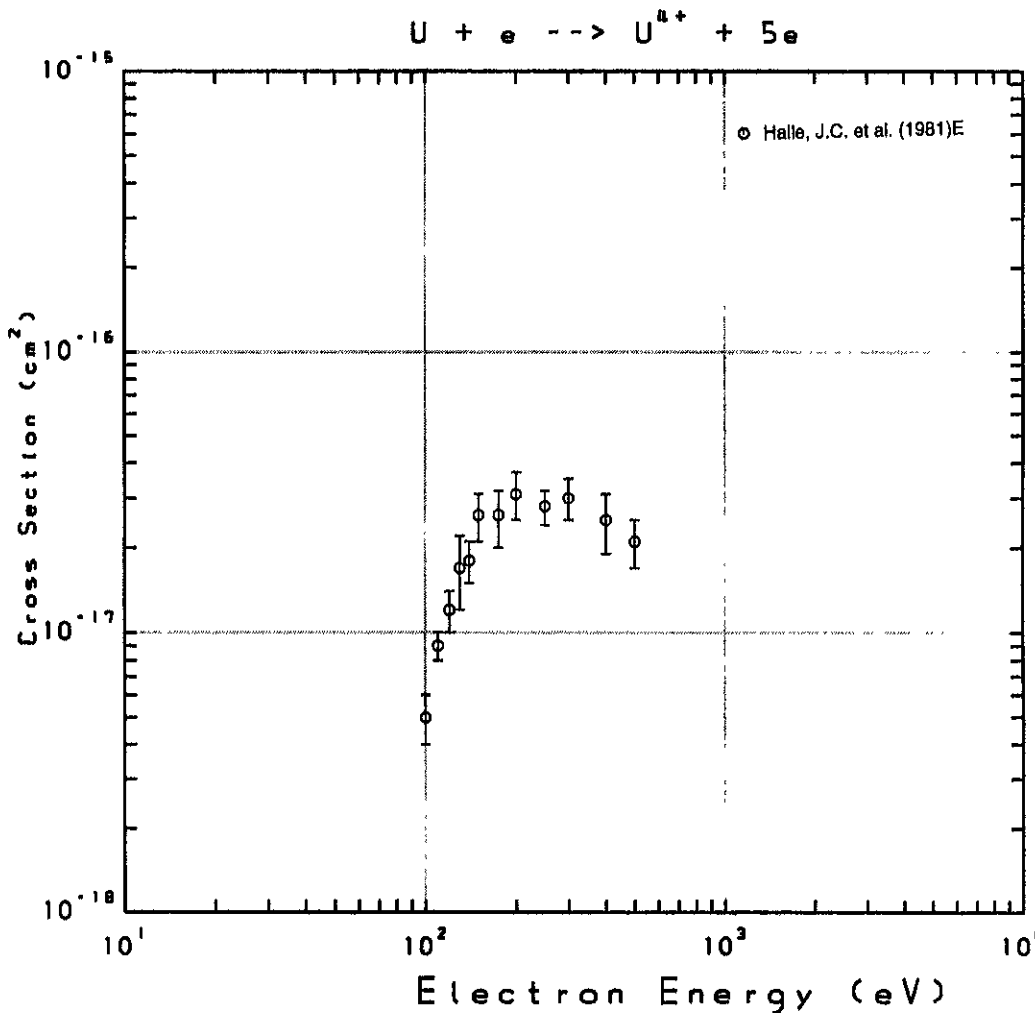

Fig. 436 U → U^{4+}

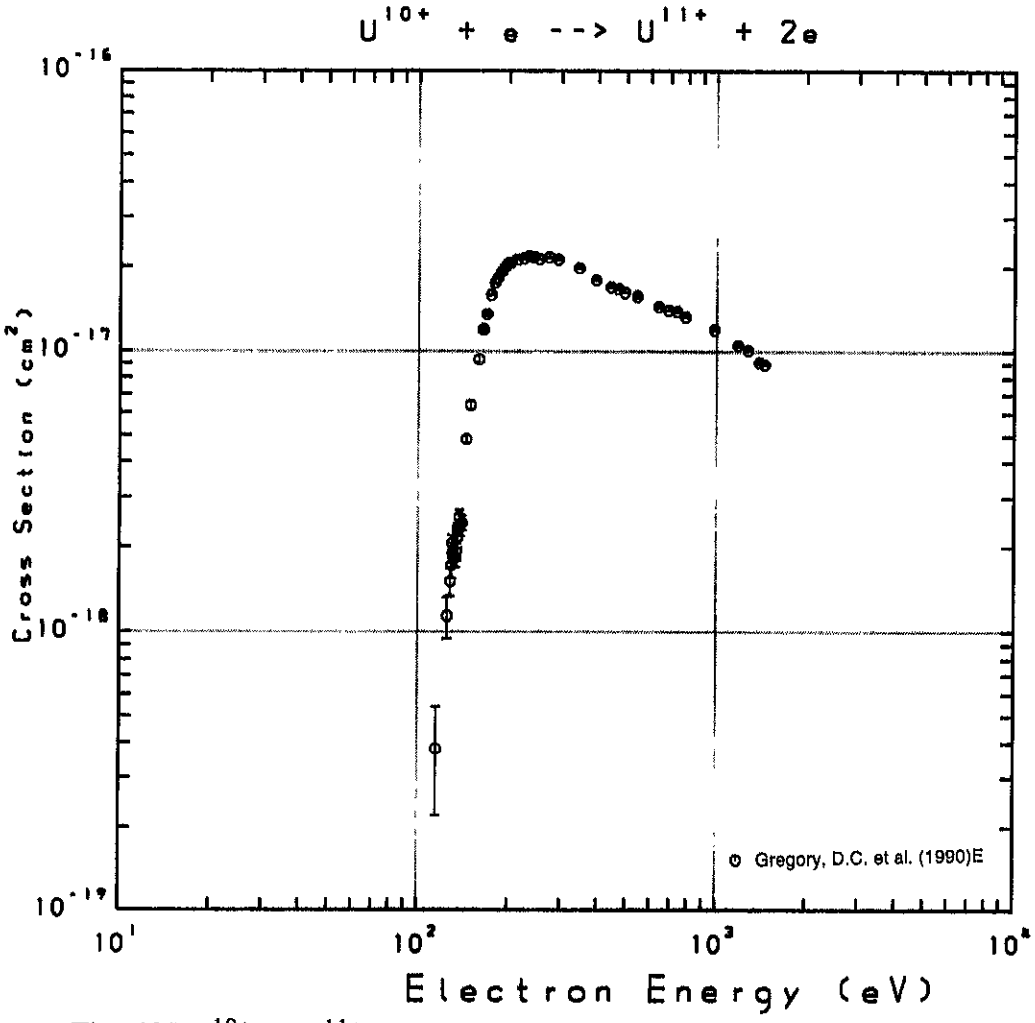

Fig. 437 $U^{10+} \rightarrow U^{11+}$

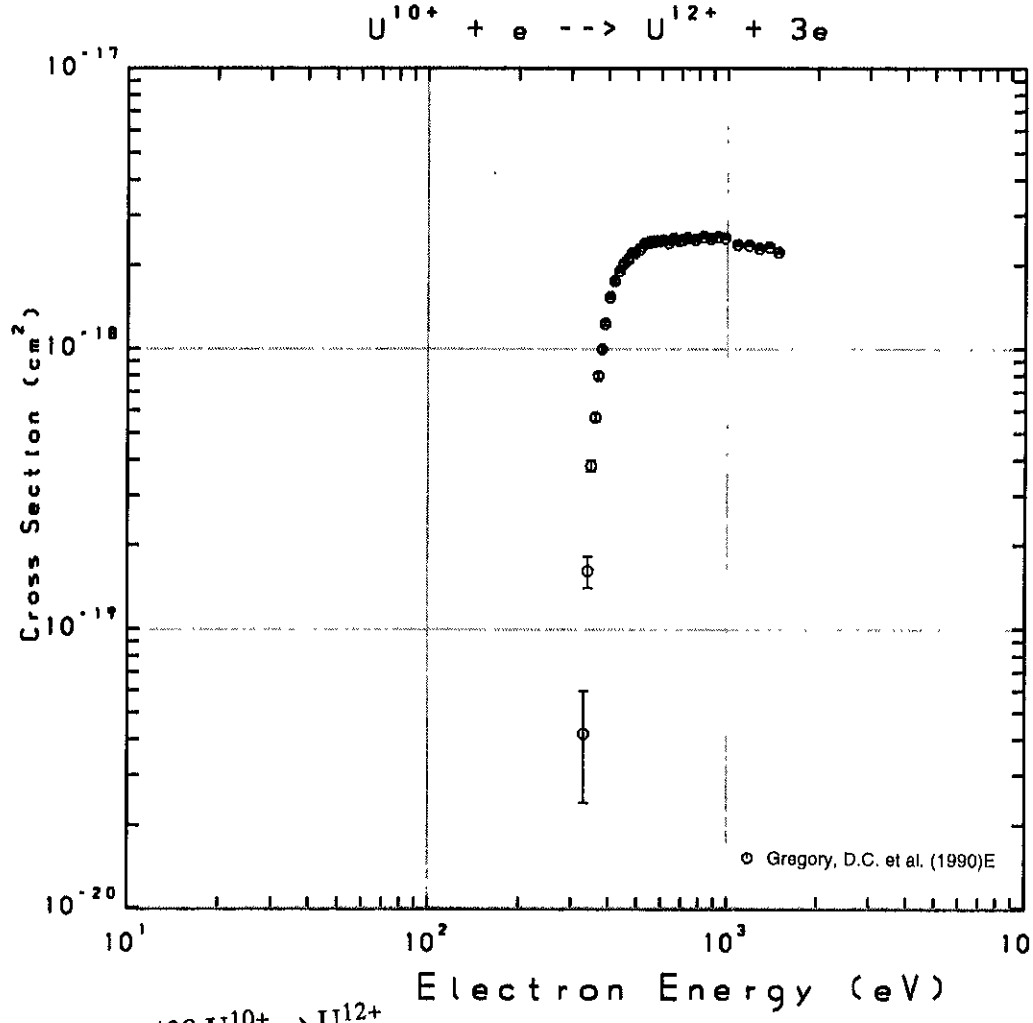

Fig. 438 $U^{10+} \rightarrow U^{12+}$

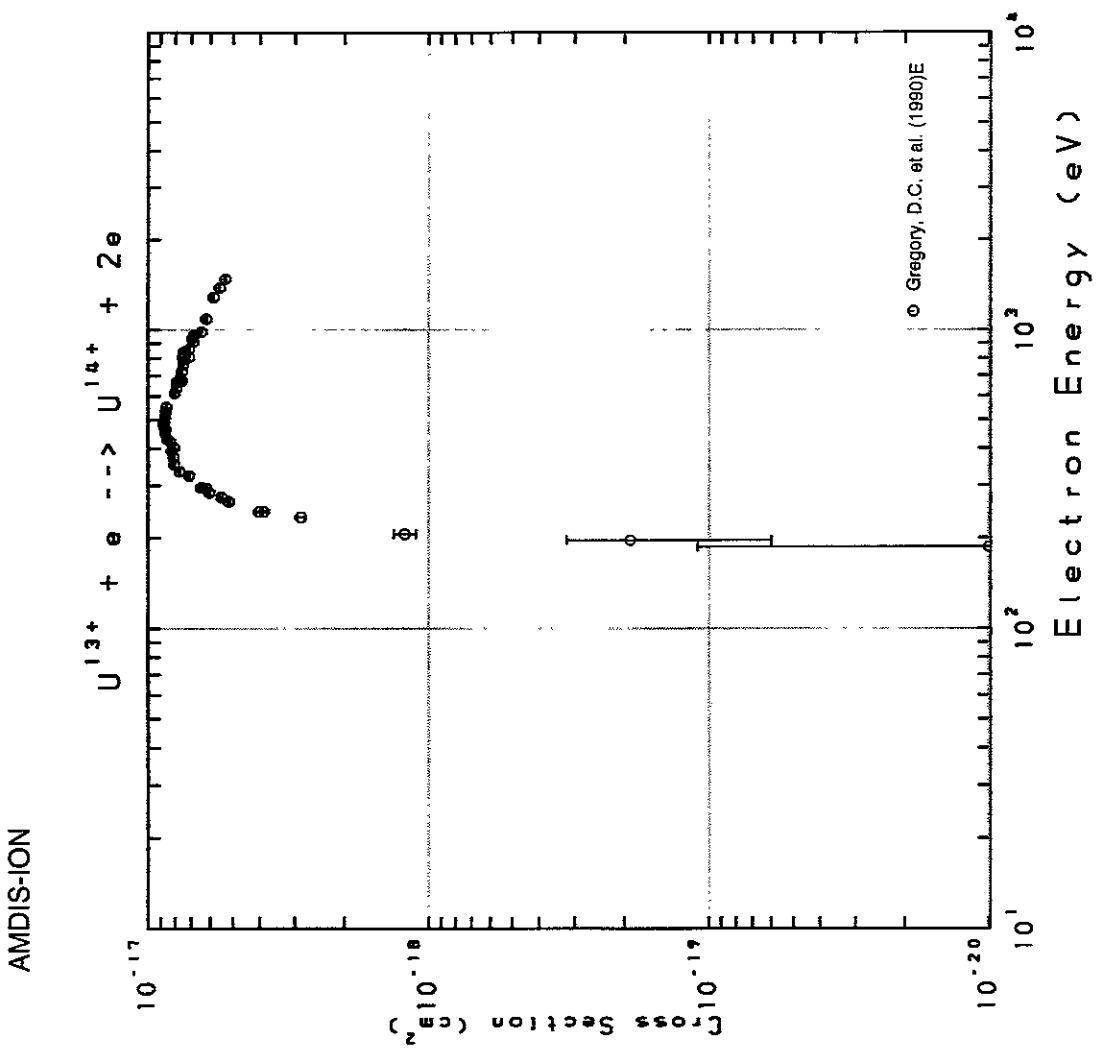

Fig. 440 $U^{13+} \rightarrow U^{14+}$

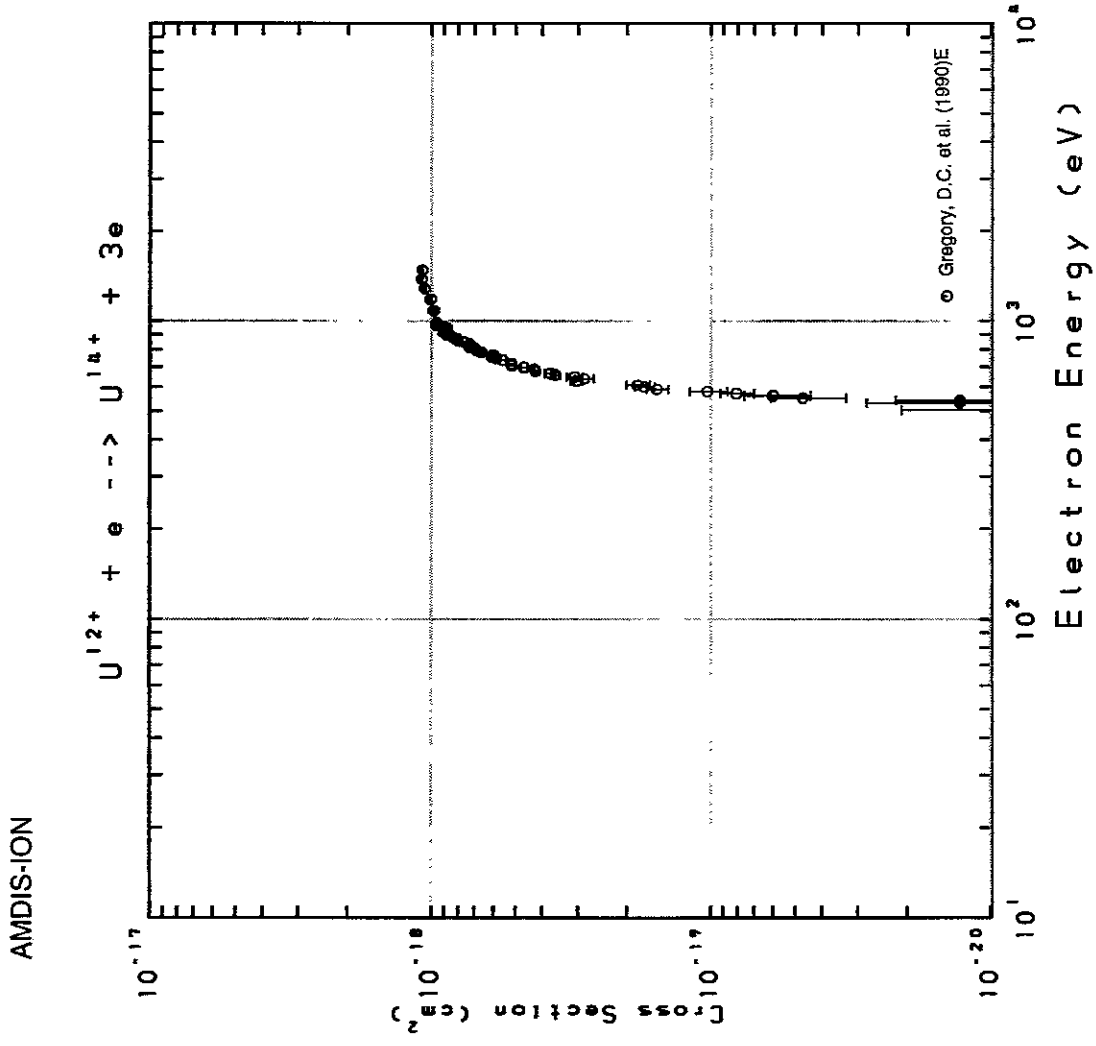

Fig. 439 $U^{12+} \rightarrow U^{14+}$

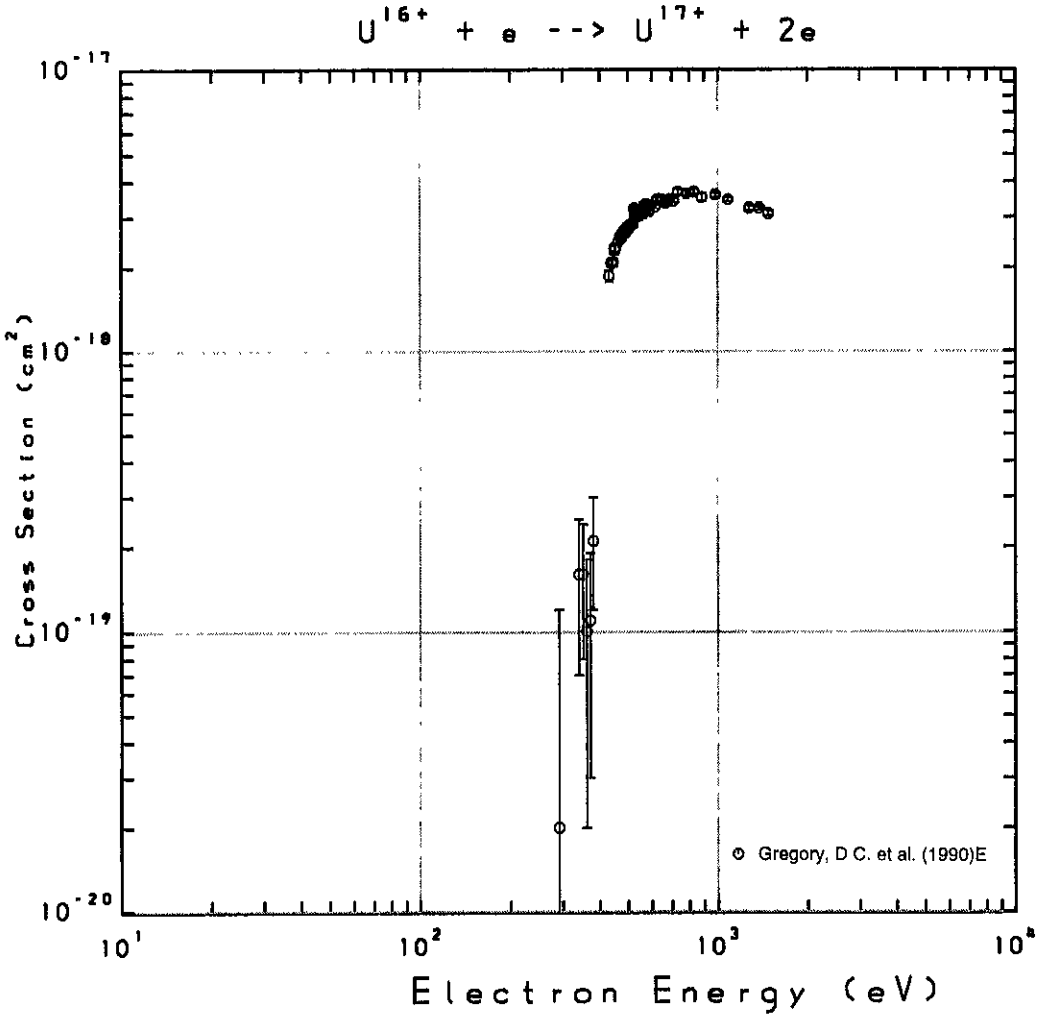

Fig. 441 $U^{16+} \rightarrow U^{17+}$

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50 2070 1983
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Ne + e --> Ne^3+` + 4e

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Ne + e --> Ne^+` + 2e

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Ni^17+` + e --> Ni^18+` + 2e

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11202 1990
Ni^16+` + e --> Ni^17+` + 2e

Pindzola, M.S.$Griffin, D.C.$Bottcher, C.$Buie, M.J.$Gregory, D.C.
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11202 1990
Ni^14+` + e --> Ni^15+` + 2e

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Ni^13+` + e --> Ni + -12e

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Ni^1+` + e --> Ni^2+` + 2e

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11202 1990
Ni^2+` + e --> Ni^3+` + 2e

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ORNL/TM
11202 1990
Ni^3+` + e --> Ni^4+` + 2e

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11202 1990
Ni^4+` + e --> Ni^5+` + 2e

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Ni^5+` + e --> Ni^6+` + 2e

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11202 1990
Ni^6+` + e --> Ni^7+` + 2e

Pindzola, M.S.$Griffin, D.C.$Bottcher, C.$Buie, M.J.$Gregory, D.C.
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11202 1990
Ni^7+` + e --> Ni^8+` + 2e

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11202 1990
Ni^8+` + e --> Ni^9+` + 2e

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ORNL/TM
11202 1990
Ni^9+` + e --> Ni^10+` + 2e

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ORNL/TM
11202 1990
Ni^10+` + e --> Ni^11+` + 2e

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ORNL/TM
11202 1990
Ni^10+` + e --> Ni^11+` + 2e

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ORNL/TM
11202 1990
Ni^11+` + e --> Ni^12+` + 2e

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11202 1990
Ni^11+` + e --> Ni^12+` + 2e

Pindzola, M.S.$Griffin, D.C.$Bottcher, C.$Buie, M.J.$Gregory, D.C.
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11202 1990
Ni^12+` + e --> Ni^13+` + 2e

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Ni^12+` + e --> Ni^13+` + 2e

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Ni^15+` + e --> Ni^16+` + 2e

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Kr + e --> Kr^6+` + 7e

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Xe + e --> Xe^8+` + 9e

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Mo^5+` + e --> Mo^6+` + 2e

Younger, S.M.
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Hg^+` + e --> Hg^2+` + 2e

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Ar^2+` + e --> Ar^3+` + 2e

Younger, S.M.
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Ar^3+` + e --> Ar^4+` + 2e

Younger, S.M.
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Ar^4+` + e --> Ar^5+` + 2e

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Ne^3+` + e --> Ne^4+` + 2e

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Kr + e --> Kr^+` + 2e

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Rb^+` + e --> Rb^2+ + 2e

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Mo^5+` + e --> Mo^6+` + 2e

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Ar^2+` + e --> Ar^3+` + 2e

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Ar^3+` + e --> Ar^4+` + 2e

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Ar^4+` + e --> Ar^5+` + 2e

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Ar^5+` + e --> Ar^6+` + 2e

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Fe^17+` + e --> Fe^18+` + 2e

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J. Quant. Spectrosc & Radiat. Transfer
27 541 1982
Fe^17+ + e --> Fe^18+` + 2e

Younger, S M.
1982
Fe^4+` + e --> Fe^5+` + 2e

Younger, S.M.
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Fe^4+` + e --> Fe^5+` + 2e

Younger, S.M.
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Fe^4+` + e --> Fe^5+ + 2e

Younger, S.M.
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Fe^4+ + e --> Fe^5+ + 2e

Younger, S.M.

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Fe^5+` + e --> Fe^6+` + 2e

Younger, S.M.

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Fe^5+` + e --> Fe^6+` + 2e

Younger, S.M.

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Fe^5+` + e --> Fe^6+` + 2e

Younger, S.M.

1982

Fe^5+` + e --> Fe^6+` + 2e

Younger, S.M.
Phys. Rev. A
22 111 1980
He^+` + e --> He^2+` + 2e

Younger, S.M.
Phys. Rev. A
22 111 1980
C^5+` + e --> C^6+` + 2e

Younger, S.M.
Phys. Rev. A
22 111 1980
Ne^9+ + e --> Ne^10+` + 2e

Younger, S.M.
Phys. Rev. A
22 111 1980
Be^+` + e --> Be^2+` + 2e

Younger, S.M.
Phys. Rev. A
22 111 1980
O^5+` + e --> O^6+` + 2e

Younger, S.M.
Phys. Rev. A
22 111 1980
Mg^9+` + e --> Mg^10+` + 2e

Younger, S.M.
Phys. Rev. A
22 1425 1980
B^3+` + e --> B^4+` + 2e

Younger, S.M.
Phys. Rev. A
22 1425 1980
Li^+` + e --> Li^2+` + 2e

Younger, S.M.
Phys. Rev. A
22 1425 1980
Na^5+` + e --> Na^6+` + 2e

Younger, S.M.
Phys. Rev. A
22 1425 1980
Na^9+` + e --> Na^10+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
C^2+` + e --> C^3+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
N^3+` + e --> N^4+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
O^4+` + e --> O^5+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
F^5+` + e --> F^6+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
Ar^14+` + e --> Ar^15+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
C^2+` + e --> C^3+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
N^3+` + e --> N^4+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
O^4+` + e --> O^5+` + 2e

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Phys. Rev. A
24 1278 1981
F^5+` + e --> F^6+` + 2e

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24 1278 1981
Ar^14+` + e --> Ar^15+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
C^2+` + e --> C^3+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
N^3+` + e --> N^4+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
O^4+` + e --> O^5+` + 2e

Younger, S.M.
Phys. Rev. A
24 1278 1981
F^5+` + e --> F^6+` + 2e

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Phys. Rev. A
24 1278 1981
Ar^14+` + e --> Ar^15+` + 2e

Younger, S.M.
Phys. Rev. A
23 1138 1981
Na^+` + e --> Na^2+` + 2e

Younger, S.M.
Phys. Rev. A
23 1138 1981
Mg^2+` + e --> Mg^3+` + 2e

Younger, S.M.
Phys. Rev. A
23 1138 1981
Al^3+` + e --> Al^4+` + 2e

Younger, S.M.
Phys. Rev. A
23 1138 1981
Ar^8+` + e --> Ar^9+` + 2e

Younger, S.M.
Phys. Rev. A
23 1138 1981
Na^+` + e --> Na^2+` + 2e

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Phys. Rev. A
23 1138 1981
Mg^2+` + e --> Mg^3+` + 2e

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Phys. Rev. A
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Al^3+` + e --> Al^4+` + 2e

Younger, S.M.
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Ar^8+` + e --> Ar^9+` + 2e

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Phys. Rev. A
23 1138 1981
Na^+` + e --> Na^2+` + 2e

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Phys. Rev. A
23 1138 1981
Mg^2+` + e --> Mg^3+` + 2e

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Phys. Rev. A
23 1138 1981
Al^3+` + e --> Al^4+` + 2e

Younger, S.M.
Phys. Rev. A
23 1138 1981
Ar^8+` + e --> Ar^9+` + 2e

Younger, S.M.
Phys. Rev. A
24 1272 1981
Mg^+` + e --> Mg^2+` + 2e

Younger, S.M.
Phys. Rev. A
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Al^2+` + e --> Al^3+` + 2e

Younger, S.M.
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P^4+` + e --> P^5+` + 2e

Younger, S.M.
Phys. Rev. A
24 1272 1981
Ar^7+` + e --> Ar^8+` + 2e

Younger, S.M.
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24 1272 1981
Al^2+` + e --> Al^3+` + 2e

Younger, S.M.
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24 1272 1981
P^4+` + e --> P^5+` + 2e

Younger, S.M.
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24 1272 1981
Ar^7+` + e --> Ar^8+` + 2e

Younger, S.M.
Phys. Rev. A
24 1272 1981
Al^2+` + e --> Al^3+` + 2e

Younger, S.M.
Phys. Rev. A
24 1272 1981
P^4+` + e --> P^5+` + 2e

Younger, S.M.
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Ar^7+` + e --> Ar^8+` + 2e

Younger, S.M.
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Al^2+` + e --> Al^3+` + 2e

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24 1272 1981
P^4+` + e --> P^5+` + 2e

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Ar^7+` + e --> Ar^8+` + 2e

Younger, S.M.
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25 3396 1982
Ar^+` + e --> Ar^2+` + 2e

Younger, S.M
Phys. Rev. A
25 3396 1982
K^2+` + e --> K^3+` + 2e

Younger, S.M.
Phys. Rev. A
25 3396 1982
Sc^4+` + e --> Sc^5+` + 2e

Younger, S.M.
Phys. Rev. A
25 3396 1982
Fe^9+` + e --> Fe^10+` + 2e

Younger, S.M.
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25 3396 1982
Ar^+` + e --> Ar^2+` + 2e

Younger, S.M.
Phys. Rev. A
25 3396 1982
K^+` + e --> K^2+` + 2e

Younger, S.M.
Phys. Rev. A
25 3396 1982
Sc^4+` + e --> Sc^5+` + 2e

Younger, S.M.
Phys. Rev. A
25 3396 1982
Fe^9+` + e --> Fe^10+ + 2e

Younger, S.M.
Phys. Rev. A
26 3177 1982
Ar + e --> Ar^+` + 2e

Younger, S.M.
Phys. Rev. A
26 3177 1982
K^+` + e --> K^2+` + 2e

Younger, S.M.
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26 3177 1982
Co^2+` + e --> Co^3+` + 2e

Younger, S.M.
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26 3177 1982
Sc^3+` + e --> Sc^4+` + 2e

Younger, S.M.
Phys. Rev. A
26 3177 1982
V^5+ + e --> V^6+` + 2e

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26 3177 1982
Fe^8+` + e --> Fe^9+` + 2e

Younger, S.M.
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26 3177 1982
Kr^18+` + e --> Kr^19+` + 2e

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26 3177 1982
Ar + e --> Ar^+` + 2e

Younger, S.M.
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26 3177 1982
K^+` + e --> K^2+` + 2e

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26 3177 1982
Co^2+` + e --> Co^3+` + 2e

Younger, S.M.
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Sc^3+` + e --> Sc^4+` + 2e

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V^5+` + e --> V^6+` + 2e

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Li + e --> Li^+` + 2e

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Fe^8+` + e --> Fe^9+` + 2e

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Fe^8+` + e --> Fe^9+` + 2e

Younger, S.M.
J. Quant. Spectrosc & Radiat. Transfer
29 61 1982
Fe^8+ + e --> Fe^9+` + 2e

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29 61 1982
Fe^9+ + e --> Fe^10+` + 2e

Younger, S.M.
J Quant Spectrosc. & Radiat Transfer
29 61 1982
Fe^9+` + e --> Fe^10+` + 2e

Younger, S.M
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^9+ + e --> Fe^10+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^10+` + e --> Fe^11+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^10+` + e --> Fe^11+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^10+` + e --> Fe^11+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^11+` + e --> Fe^12+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^11+` + e --> Fe^12+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^11+` + e --> Fe^12+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^12+` + e --> Fe^13+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^12+` + e --> Fe^13+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^12+` + e --> Fe^13+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^13+` + e --> Fe^14+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^13+ + e --> Fe^14+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
Fe^13+ + e --> Fe^14+ + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
FeA14+` + e --> FeA15+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA3+` + e --> ScA4+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA3+` + e --> ScA4+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA3+` + e --> ScA4+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA4+` + e --> ScA5+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA4+` + e --> ScA5+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA4+` + e --> ScA5+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA5+` + e --> ScA6+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA5+` + e --> ScA6+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA5+` + e --> ScA6+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA6+` + e --> ScA7+` + 2e

Younger, S.M.
J Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA6+` + e --> ScA7+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA6+` + e --> ScA7+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA7+` + e --> ScA8+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA7+` + e --> ScA8+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA7+` + e --> ScA8+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA8+` + e --> ScA9+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA8+` + e --> ScA9+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA8+` + e --> ScA9+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
29 61 1982
ScA9+` + e --> ScA10+` + 2e

Younger, S.M.

1982
FeA+` + e --> FeA2+` + 2e

Younger, S.M.

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FeA+` + e --> FeA2+` + 2e

Younger, S.M.

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FeA+` + e --> FeA2+` + 2e

Younger, S.M.

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FeA+` + e --> FeA2+` + 2e

Younger, S.M.

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FeA2+` + e --> FeA3+` + 2e

Younger, S.M.

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FeA2+` + e --> FeA3+` + 2e

Younger, S.M.

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FeA2+` + e --> FeA3+` + 2e

Younger, S.M.

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FeA2+` + e --> FeA3+` + 2e

Younger, S.M.

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FeA3+` + e --> FeA4+` + 2e

Younger, S.M.

1982
FeA3+` + e --> FeA4+` + 2e

Younger, S.M.

1982
FeA3+ + e --> FeA4+` + 2e

Younger, S.M.

1982
FeA3+` + e --> FeA4+` + 2e

Younger, S.M.

1982
FeA6+` + e --> FeA7+` + 2e

Younger, S.M.

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FeA6+` + e --> FeA7+` + 2e

Younger, S.M.

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FeA6+` + e --> FeA7+` + 2e

Younger, S.M.

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FeA6+` + e --> FeA7+` + 2e

Younger, S.M.

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FeA7+` + e --> FeA8+` + 2e

Younger, S.M.

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FeA7+` + e --> FeA8+` + 2e

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1982
FeA7+` + e --> FeA8+` + 2e

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FeA7+` + e --> FeA8+` + 2e

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FeA18+` + e --> FeA19+` + 2e

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FeA18+` + e --> FeA19+` + 2e

Younger, S.M.
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FeA18+` + e --> FeA19+` + 2e

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FeA18+` + e --> FeA19+` + 2e

Younger, S.M.
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FeA19+` + e --> FeA20+` + 2e

Younger, S.M.
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FeA19+` + e --> FeA20+` + 2e

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FeA19+` + e --> FeA20+` + 2e

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FeA19+` + e --> FeA20+` + 2e

Younger, S.M.
J Quant. Spectrosc. & Radiat. Transfer
27 541 1982
Fe^22+` + e --> Fe^23+` + 2e

Younger, S.M.
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27 541 1982
Fe^22+` + e --> Fe^23+` + 2e

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J. Quant. Spectrosc. & Radiat. Transfer
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Fe^22+` + e --> Fe^23+` + 2e

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J Quant. Spectrosc. & Radiat. Transfer
27 541 1982
Fe^23+ + e --> Fe^24+` + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
27 541 1982
Fe^23+ + e --> Fe^24+ + 2e

Younger, S.M.
J. Quant. Spectrosc. & Radiat. Transfer
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Fe^23+` + e --> Fe^24+` + 2e

Younger, S.M.
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Fe^24+ + e --> Fe^25+` + 2e

Younger, S.M.
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Fe^25+` + e --> Fe^26+` + 2e

Younger, S.M.

1982
Ar^6+` + e --> Ar^7+` + 2e

Younger, S.M.

1982
H + e --> H^+` + 2e

Younger, S.M

1982
He + e --> He^+` + 2e

Younger, S.M.

1982
Ne + e --> Ne^+` + 2e

Younger, S.M.

1982
Ne + e --> Ne^+` + 2e

Younger, S.M.

1982
Ne^+` + e --> Ne^2+` + 2e

Younger, S.M.

1982
Ne^+` + e --> Ne^2+` + 2e

Younger, S.M.

1982
Ne^+` + e --> Ne^2+` + 2e

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Ar^+` + e --> Ar^2+ + 2e

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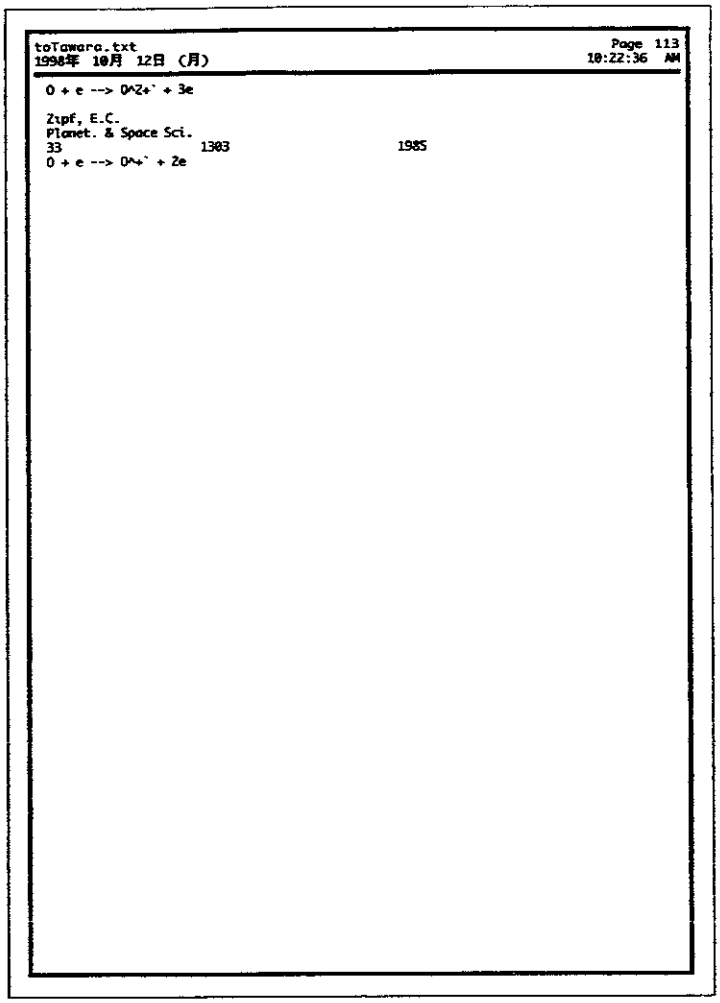
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