

3rd Japan-Korea Seminar on Advanced Diagnostics for Steady-State Fusion Plasmas

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The third Japan-Korea Seminar on Advanced Diagnostics for Steady-State Fusion Plasmas has been held at Matsushima, Miyagi from Aug.31 to Sep.3, 2006. The seminar was planned as an educational program for graduate students and young researchers in Japan and Korea. The program includes 11 lectures by senior staffs and 25 oral presentations by young students and researchers. The lectures are on reviews of large fusion device experiments and on several key diagnostics that will play essential role in future long pulse or steady state fusion plasma experiments. Considering the start of ITER project in which both Japan and Korea are participating, the seminar program was arranged covering international topics rather than closing research activities in two countries. Two lecturers from EU were invited besides 9 lecturers from Japan and Korea (7 Japanese and 2 Koreans), who gave talks on JET diagnostics and ITER physics issues. Lecturers were asked to prepare and send their lecture notes to the conference secretariat before the seminar start. The lecture notes were delivered at the beginning of the seminar so that the participants can concentrate to listen to the lectures. The notes will be useful especially for graduate students for future studies. The program is shown below.

Total number of participants was 49, and 2/3 of them were young researchers including graduate students and post-doctoral fellows. Nine of 14 Korean participants were graduate students. The seminar became a good occasion for young students and researchers to learn about the status of international fusion researches and to evaluate their research fields and levels by themselves. Many of these young participants gave oral presentations (25 papers). It was a good opportunity for them to brush up their presentation and language skills. Such program and chance are expected to raise their motivation in research activities at their home institutes. In Korea, the KSTAR project, which is a large tokamak experimental program with super conducting coils, is about to start. Korean fusion researchers recognize the importance of education for young people who will join this project near future. In this sense, they appreciated such international educational program as well as research collaboration with Japanese fusion research program.

The seminar series will be continued. The next seminar will be held two years later in Korea.

Program:

August 31st.	
14:00~14:30	
Welcome	(Tohoku Univ.)
14:30~15:00	
Tour of TU Helicac/DTalpha	
15:00~15:40	
Tour of TU-cyclotron	
16:00~18:00	
Hotel Registration	
Dinner(19:00~)	
September 1st.	
8:30~ 8:40	
Welcome Address	M.Sasao
8:45~ 9:30	
JET Diagnostics	P.Stott
9:30~10:15	
KSTAR Project and its Diagnostics	Y.K.Oh
Coffee break (15 min.)	
10:30~11:15	
Overview of the LHD Experiments	A.Komori
11:15~12:00	
Microwave Diagnostics	A.Mase
Lunch	
13:00~13:35	
Tokamak Research on JT-60	Y.Koide
13:35~14:10	
A Plan of Polarimetric Diagnostics	Y.Kawano
14:10~14:45	
Imaging Diagnostics	B.Peterson
14:45~15:05	
Coherence Imaging Techniques	J.Chung
15:05~15:25	
Laser-Induced Fluorescenc	T.Kaneko
Coffee break (15 min.)	
15:40~18:00	
Presentations by young researchers and students (7papers)	
Dinner(18:30~)	
September 2nd.	
8:30~10:10	
Presentations by young researchers and students (5papers)	
Coffee break (15 min.)	
10:25~12:05	
Presentations by young researchers and students (5papers)	
Lunch	
13:10~14:50	
Presentations by young researchers and students (5papers)	
Coffee break (15 min.)	
15:05~16:05	
Presentations by young researchers and students (3papers)	
Banquet (17:00~)	
September 3rd.	
8:30~ 8:50	
Beam Probe Diagnostics	H. Iguchi
8:50~ 9:35	
ITER: The Physics Programme and Physics	A. Costley
9:35~10:00	
Closing Session	A. Komori Y.K.Oh