

III. International Collaboration

Many research activities in the National Institute for Fusion Science (NIFS) are strongly related to the international collaborations with the institutes and universities in the world. These collaborations are carried out in various frameworks: multilateral international collaborations, bilateral ones, programs based on governmental or inter-institutional agreements and finally personal exchanges. They are mostly supported by Grant-in-aid of Scientific Research of the Ministry of Education, Culture, Sport, Science and Technology (MEXT) and various programs of the Japan Society for the Promotion of Science (JSPS).

NIFS has following four programs of multilateral collaborations: the US-Japan (Universities) Fusion Cooperation Program, the IEA PWI Collaboration (former IEA TEXTOR Collaboration), IEA Stellarator-Heliotron Agreement, and IEA Spherical Tori Agreement. Agreements on academic exchange and cooperation have been signed up in order to promote scientific exchanges between NIFS and foreign institutes. Table I shows these

agreements in the order of the time of enforcement. A new Agreement was concluded between NIFS and HiLASE Center (Czech) in FY2015. Grant-in-Aid for International Scientific Research programs and individual travel grants for participating overseas international symposia and conferences (both being supported by MEXT) have effectively functioned to promote international activities of NIFS.

Guest professors (supported by MEXT), who stayed for more than three months, and research fellows (JSPS research fellowship) are listed in Tables II and III, respectively. The 25th International Toki Conference on "Creating the Future -Innovative Science of Plasma and Fusion-" was held on 3 - 6 in November, 2015, NIFS being as the host institute.

Statistics of visitors and visit by NIFS staffs in FY2015 are as follows: foreign scientists from 14 countries visited NIFS 176 person-times, and NIFS staffs went abroad 348 person-times to 25 countries.

(Masuzaki, S.)

Table. I List of Academic Exchange and Cooperation Agreement with NIFS

<i>Organization</i>	<i>Country</i>	<i>Effective from</i>
Institute of Plasma Physics, Academia Sinica	China	June 27, 1992
Max-Planck Institute for Plasma Physics	Germany	May 11, 1993
Kurchatov Institute of Nuclear Fusion	Russia	May 13, 1993
Kharkov Institute of Physics and Technology	Ukraine	Oct. 7, 1994
The Australian National University	Australia	May 8, 1995
National Fusion Research Institute	Korea	March 6, 1996
Karlsruhe Institute of Technology	Germany	Oct. 6, 2005
Princeton Plasma Physics Laboratory	U.S.A.	March 3, 2006
Institute for Fusion Studies, The University of Texas at Austin	U.S.A.	March 6, 2006
Oak Ridge National Laboratory	U.S.A.	May 25, 2006
UCLA, Center for Energy Science and Technology Advanced Research	U.S.A.	Nov. 28, 2006
Aix-Marseille University	France	July 19, 2007
A.M. Prokhorov General Physics Institute	Russia	Oct. 15, 2007
Associated International Laboratory (LIA): Centre National de la Recherche Scientifique (CNRS), Aix-Marseille University, Kyushu University, Osaka University	France	Oct. 22, 2007
Research Center for Energy, Environment and Technology (CIEMAT)	Spain	Feb. 26, 2009
ITER International Fusion Energy Organization(ITER)		Feb. 2, 2011
FOM Institute for Plasma Physics'RIJNHUIZEN	Netherland	Feb. 4, 2011
Southwest Institute of Physics	China	April 18, 2012
CEA, Institut de Recherche sur la Fusion par confinement Magnétique (IRFM)	France	Feb. 21, 2015
Institute of Ionized Gas (IGI)	Italy	Feb. 23, 2015
Consorzio RFX	Italy	Feb. 23, 2015
HiLASE Center of the Institute of Physics of the Czech Academy of Sciences	Czech	March 23, 2016

Table. II List of Guest Professors in FY2015

Name	Organization	Country	Term
VYACHESLAVOV, Leonid, Nikolaevich	Budker Institute of Nuclear Physics	Russia	June 1 – Sep. 4, 2015
HUDSON, Stuart	Princeton Plasma Physics Laboratory	U.S.A.	June 1 – Aug.31, 2015
Pegourie, Bernard	Institute for Magnetic Fusion Research	France	Sep.10 – Dec.15, 2015

Table III. List of JSPS invited fellows for NIFS in FY2014

(1) Postdoctoral Fellowships for foreign Researchers

Timothée Nicolas (Apr.25, '14-Apr.24, '16)

(2) Invitation Fellowship Programs for Research in Japan

None