4th Japan-Korea Seminar on Advanced Diagnostics for Steady-State Fusion Plasmas

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The 4th Japan-Korea Seminar on Advanced Diagnostics for Steady-State Fusion Plasmas has been held at Pohang University of Science and Technology (POSTECH), Pohang, Korea, from Aug. 25 to Aug. 27, 2008. The seminar was planned as series of an educational program on plasma and fusion research for graduate students and young researchers in Japan and Korea. The program includes 18 lectures by senior staffs and 29 poster presentations by young students/researchers. Short pre-poster sessions (4 minutes for each) were held to give them a chance for oral presentation in English. The lectures were on reviews of large fusion device experiments (KSTAR, LHD, ITER and QUEST) and on several key diagnostics that will play essential role in future long pulse or steady state fusion plasma experiments. Eleven lecturers are from Japan and seven from Korea. Topics and lecturers were selected under mail discussions with Prof. H. Park, Korean side secretary of the seminar. Lecturers were asked to prepare and send their lecture notes to the conference secretariat before the seminar start. The copies of lecture notes were delivered to all participants 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 77, and 2/3 of them were young researchers including graduate students and post-doctoral fellows. Japanese participants were 11 lecturers and 18 young students/researchers. All the Japanese young participants gave poster presentations in fusion research. On the other hands, half of the Korean poster presenters (total 11 posters) give topics on basic plasma diagnostics. However the number of researches related with nuclear fusion is increasing compared with the former seminar held at Matsushima, Japan. The seminar became a good opportunity for young students and researchers to learn about the status of international fusion researches and to evaluate their research levels by themselves.

In Korea, the KSTAR project, which is a large tokomak experimental program with super conducting coils, has just started. Korean fusion researchers recognize the importance of education for young people who will join this project. This seminar is highly appreciated by them.

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

Program:

Program:		
August 25 th		
I. Introduction		H. Park
08:30 - 08:35	Welcome and Open	ing Remarks
1 6		M. Kwon
II-1 Machine status	and Overview	K. Kawahata
08:35 - 09:20	KSTAR status	M. Kwon (KO)
09:20 - 10:05	LHD status	A. Komori (JP)
10:05 – 10:25 Coffee Break II-2 Machine status and Overview K.S. Chung		
10:25 – 11:10	Kyushu ST Program	K.S. Chung
11:10 – 11:55	Overview of ITER of	liagnostics
11.10 11.55	Overview of fillice	Y. Kusama (JP)
11:55 - 13:30	Lunch (Faculty resta	urant)
III-1 Diagnostics		A. Komori
13:30 - 14:05	Interferometry and p	
14:05 – 14:40	X-ray crystal spectro	K. Kawahata (JP)
14.03 – 14.40	A-ray crystar specific	S.G. Lee (KO)
14:40 - 15:00	Coffee Break	` ,
III-11 Diagnostics		S.G. Lee
15:00 – 15:35 15:35 – 16:10	Neutron diagnostics	
15:35 - 16:10	Beam probe	H. Iguchi (JP)
16:10 – 16:20	Coffee Break	
Pre-poster presentation (Students from Japan) W. Choe & H. Iguchi		
16:20 - 17:30	Student presentation	
17:30 – 19:30	Dinner (POSCO Interpretation	
Poster Session	Dimier (1 0500 ini	omational content
20:00 - 22:00	Poster at Physics De	partment
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August 26 th		
VI-1 Diagnostics		Y. Nagayama
08:30 - 09:05	Spectroscopy	S. J. Yoo (KO)
09:05 - 09:40 09:40 - 10:15	Thomson scattering	
09:40 - 10:15 10:15 - 10:50	Electrical probes	K.S. Chung (KO)
10:13 – 10:30	Computational Diag Micro and Millimete	
	where and willing	H. Hobo (JP)
10:50 - 11:00	Coffee Break	
	tion (Students from	Korea)
K. Ida & S. Yoo		
11:00 – 12:00	Student presentation	
12:00 – 13:30	Lunch (Faculty restu	iarant)
Poster Session	Doctor at Physics Do	va a vtva an t
13:30 - 15:30 15:40 - 21:00	Poster at Physics De Tour and Dinner	parunent
13.40 - 21.00	Tour and Diffier	
August 27 th		
V-1 Diagnostics		A. Mase
08:30 - 09:05	Tomography and da	
00.05 00.40		V. Nagayama (JP)
09:05 - 09:40 09:40 - 10:15	Dust and PWI	W.H. Choe (KO)
10:15 - 10:35	Bolometry Coffee Bi	B. Peterson (JP)
V-2 Diagnostics	Collec Di	A. England
10:35 – 11:10	CXRS and MSE	K. Ida (JP)
11:10 – 11:45	ECE and reflectome	
11:45 - 12:20	Visualization diagno	
	ECEI)	H. Park (KO)
Conclusion of the 4 th Korea-Japan Diagnostic Seminar		