LHD project

Daily Schedule

Prepared by
R.Seki N.Tamura

Date	Experimental Subject
2024/4/11(Thu)	Observation of the fast-ion confinement degradation depending on the neutral beam power Impurity effect on turbulent transport in magnetically-confined toroidal plasmas Real-time wall conditioning using the IPD, Impurity transport study in the plasma with an impurity hole

Exp. No.	Experimental Session Group	Session Coordinator
1347	IA/TC/MAP	G.Motojima[2142] / R.Ishikawa[2576] H.Nakano[2209] / T.Tokuzawa[2217] N.Kenmochi[2208] / R.Seki[2201]

Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		UP	[IA]			[TC]	[MAP]			DN					

Details and Experimental Conditions	Gas
[IA](10:30 ～ 12:45) ECH, NBI 10:30-12:40 Observation of the fast-ion confinement degradation depending on the neutral beam power (S. Kamio(TAE), K. Nagaoka) Sequence:3min	H2

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CW	3.6	2.75	1.2538	100.0	

[TC](12:45 ～ 14:15) ECH, NBI 12:40-14:10 Impurity effect on turbulent transport in magnetically-confined toroidal plasmas(N.Tamura) Sequence:3min	H2,He,Ar

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CW	3.6	2.75	1.2538	100.0	

[MAP](14:15 ～ 16:45) ECH, NBI 14:20-15:25 The evaluation of the toroidal uniformity of impurity deposition for effective real-time wall conditioning using the IPD (M. Shoji) 15:25-15:40 Magnetic field configuration changed 15:40-16:45 Impurity transport study in the plasma with an impurity hole by means of TESPEL (D.M. Roque(Ciemat), N. Tamura) Sequence:3min	H2,Ar

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CW	3.6	2.75	1.2538	100.0	
2		CW	3.55	2.7887	1.2538	100.0	

Wall Conditioning

GD(Before Exp.): He , GD(After Exp.): None , Cryopump(During Exp.): on

Remarks

(IA)Special Requirement: C-pellet
Required Diag.: FIDA, HIBP

(TC)LID (cancel)
Required Diag.:TESPEL, SSGP, CXS, DR, BS, PCI

(MAP)C samples are exposed to the divertor plasma
LID (cancel, 15:40-16:45)
Required Diag.: Fast camera (2.5-U), Spectroscopy, CXS, BES, TESPEL, HIBP, DR, PCI

【Precautions for today's LHD experiments】
(id:723) Impurity pellet/TESPEL
(id:724) Impurity gas puff
(id:728) Mag. Conf.: 3.55 m =< Rax < 3.6 m
(id:731) Mag. Conf.: Using LID coil
(id:760) Insertion of sample, etc: Exposure of a material sample to divertor plasma by the manipulators
(id:762) Impurity powder dropper