

Daily Schedule

Prepared by

R.Yanai

Date	Experimental Subject																																														
2024/4/23(Tue)	Database construction of boron ion emission lines, Effect of boron impurity powder injection on tungsten impurity transport in the LHD core plasma, Spectroscopic analysis of divertor detachment, The sustainment of divertor detachment by injection of impurity dust particles into the magnetic island in the LHD peripheral plasma using the IPD																																														
Exp. No.	Experimental Session Group						Session Coordinator																																								
1353	MAP						R. Yanai[2163] / G. Motojima[2142]																																								
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																																
		U P	[MAP]							D N																																					
Details and Experimental Conditions														Gas																																	
[MAP](10:30 ~ 16:45) ECH, NBI 10:30-11:30 Database construction of boron ion emission lines (M. Goto) 11:30-11:40 NBI calib. (3 shots) 11:40-13:30 Effect of boron impurity powder injection on tungsten impurity transport in the LHD core plasma (T. Oishi (Tohoku Univ.)) 13:30-13:50 [Change of Mag. Config.: 3.6 m, 2.75 T -> 3.9 m, 2.5385 T] 13:50-14:50 Spectroscopic analysis of divertor detachment (M. Goto) 14:50-15:10 [Change of Mag. Config.: 3.9 m, 2.5385 T -> 3.9 m, 1.375 T] 15:10-16:45 The sustainment of divertor detachment by injection of impurity dust particles into the magnetic island in the LHD peripheral plasma using the IPD (M. Shoji) Sequence:3min <table><tr><th>#</th><th>Option</th><th>Polarity</th><th>Rax(m)</th><th>Bax(T)</th><th>gamma</th><th>Bq(%)</th><th>Subcooled</th></tr><tr><td>1</td><td></td><td>CW</td><td>3.6</td><td>2.75</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>2</td><td></td><td>CW</td><td>3.9</td><td>2.5385</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</td><td></td><td>CW</td><td>3.9</td><td>1.375</td><td>1.2538</td><td>100.0</td><td></td></tr></table>														#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.6	2.75	1.2538	100.0		2		CW	3.9	2.5385	1.2538	100.0		3		CW	3.9	1.375	1.2538	100.0		H2,Ar	
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																																								
1		CW	3.6	2.75	1.2538	100.0																																									
2		CW	3.9	2.5385	1.2538	100.0																																									
3		CW	3.9	1.375	1.2538	100.0																																									
Wall Conditioning																																															
GD(Before Exp.): None , GD(After Exp.): He , Cryopump(During Exp.): off																																															
Remarks																																															
(MAP)Spectroscopy, CXS (Ti, Er), Fast camera, IPD (B, Si), impurity pellet (B, W), LID (13:50-16:45)																																															
[Precautions for today's LHD experiments] (id:723) Impurity pellet/TESPEL (id:724) Impurity gas puff (id:731) Mag. Conf.: Using LID coil (id:752) NBI: Injection into the discharges with low fields (id:762) Impurity powder dropper																																															