

Daily Schedule

Prepared by

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M.Nishiura

Date	Experimental Subject																																															
2022/9/30(Fri)	Device commissioning, Plasma commissioning, Alpha particle detector test IPD experiment																																															
Exp. No.	Topical Group					TGL					Sub-TGL																																					
1278	multi-ion/instability					N.Tamura/M.Kobayashi K.Nagaoka/Y.Takemura [2337/2169, 2177/2167]					H.Kasahara/G.Motojima R.Seki/N.Kenmochi [2203/2142, 2201/2208]																																					
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																																	
		U P			[multi-ion]			[instability]			D N																																					
Details and Experimental Conditions														Gas																																		
[multi-ion Coordinator: N.Tamura](11:45 ~ 15:30) ECH, NBI, ICH * Coil excitation for the experiments is scheduled after the fire drill (around from 9:30). 11:45 - 15:30 Device commissioning (N. Tamura) 11:45 - 15:30 Plasma commissioning (N. Tamura) 11:45 - 15:30 Trial: Measurements of p-11B alpha particles (TAE group, S. Ohdachi, K. Ogawa) Maximum number of discharges : 180 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>CCW</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>CCW</td><td>3.6</td><td>1.375</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</td><td></td><td>CCW</td><td>3.6</td><td>1.0</td><td>1.2538</td><td>100.0</td><td></td></tr></table>														#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CCW	3.6	2.75	1.2538	100.0		2		CCW	3.6	1.375	1.2538	100.0		3		CCW	3.6	1.0	1.2538	100.0		H2,He,N2 ,Ne,Ar,Kr, Xe		
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																																									
1		CCW	3.6	2.75	1.2538	100.0																																										
2		CCW	3.6	1.375	1.2538	100.0																																										
3		CCW	3.6	1.0	1.2538	100.0																																										
[instability Coordinator: M.Shoji](15:30 ~ 18:45) ECH, NBI The radiation enhancement and triggering the island divertor detachment by direct supply of BN powders into the magnetic island in the LHD peripheral plasma using the IPD (M. Shoji) Maximum number of discharges : 100 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>CCW</td><td>3.85</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		CCW	3.85	1.375	1.2538	100.0		H2,Ar																		
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																																									
1		CCW	3.85	1.375	1.2538	100.0																																										
Wall Conditioning																																																
		GD(Before Exp.): None , Cryopump(During Exp.): off																																														
Remarks																																																
Coil excitation from 9:00 a.m. is for the fire drill. Therefore, coil excitation for the experiment is scheduled to be conducted after the fire drill. (multi-ion)56 GHZ gyrotron will be used at Bt = 1.0T. (instability)RMP [Precautions for today's LHD experiments] (id:676) Impurity pellet/TESPEL (id:677) Impurity gas puff (id:678) Impurity powder dropper (id:685) Mag. Conf.: Using LID coil (id:686) Probe: Insertion of Fast Ion Loss Diagnostics (8-O) (id:688) Probe: HDLP Probe access near LCFS (id:693) ECH: Commissioning (alignment, profile check) (id:696) ICH: IC wave injection into the vaccum (w/o plasma) (id:702) ECH: Collective Thomson Scattering (CTS) measurement (id:703) ECH: EC wave Injection from the Port 1.5Uo antenna (id:706) ICH: Antennae insertion for plasma heating by ICH (id:710) ECH: Focusing point scan : Subcool required (id:712) NBI: Injection into the discharges with low fields (id:717) Insertion of sample, etc: Insertion of the alpha particle detector (id:718) ECH: Optical Vortex injection : Subcool required (id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece																																																