

Daily Schedule

Prepared by

N.Tamura

Date	Experimental Subject																																															
2022/12/23(Fri)	Effect of edge magnetic islands on particle transport Impurity powder dropping and material sample exposure to He plasmas																																															
Exp. No.	Topical Group					TGL					Sub-TGL																																					
1327	spectroscopy/multi-ion					M. Goto N.Tamura/M.Kobayashi [2290, 2337/2169]					M.Yoshinuma/T.Oishi/T.Kawate H.Kasahara/G.Motojima [2172/2022/2256, 2203/2142]																																					
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																																	
		U P	[spectroscopy]						[multi-ion]				D N																																			
Details and Experimental Conditions															Gas																																	
[spectroscopy Coordinator: TetsutarouOishi](09:45 ~ 15:30) ECH, NBI 9:45-12:05 An effect of RMP island on density buildup phenomena triggered by heating power reduction (S. Morita) (including magnetic configuration change once or twice) 14:55-15:05 NBI calibration 15:05-15:25 Magnetic configuration change Maximum number of discharges : 120 Sequence:3min <table><tr><td>#</td><td>Option</td><td>Polarity</td><td>Rax(m)</td><td>Bax(T)</td><td>gamma</td><td>Bq(%)</td><td>Subcooled</td></tr><tr><td>1</td><td></td><td>CCW</td><td>3.75</td><td>2.64</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>2</td><td></td><td>CCW</td><td>3.8</td><td>2.6053</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</td><td></td><td>CCW</td><td>3.85</td><td>2.5714</td><td>1.2538</td><td>100.0</td><td></td></tr></table>															#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CCW	3.75	2.64	1.2538	100.0		2		CCW	3.8	2.6053	1.2538	100.0		3		CCW	3.85	2.5714	1.2538	100.0		H2,Ar	
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																																									
1		CCW	3.75	2.64	1.2538	100.0																																										
2		CCW	3.8	2.6053	1.2538	100.0																																										
3		CCW	3.85	2.5714	1.2538	100.0																																										
[multi-ion Coordinator: GenMotojima](15:30 ~ 18:45) ECH, NBI, ICH 15:25-15:30 Data acquisition sequence change (3m -> 3m30s discharge cleaning) 15:30-18:45 Impact of impurity powder dropping on He plasma (S. Masuzaki), Exposure of material samples into the LHD edge plasma by means of the manipulator (C.P. Dhard) Maximum number of discharges : 90 Sequence:3min30s(Wall DC) <table><tr><td>#</td><td>Option</td><td>Polarity</td><td>Rax(m)</td><td>Bax(T)</td><td>gamma</td><td>Bq(%)</td><td>Subcooled</td></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></table>															#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CCW	3.6	2.75	1.2538	100.0		H2,He,Ar																	
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																																									
1		CCW	3.6	2.75	1.2538	100.0																																										
Wall Conditioning		GD(Before Exp.): H2 , Cryopump(During Exp.): off																																														
Remarks		(spectroscopy)Long pulse NBI (5s), impurity pellets (multi-ion)Long pulse NBI (5s), Spectroscopy, CXS, PCI, ECE [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:704) ECH: EC wave injection for more than 10 s (Combined) (id:706) ICH: Antennae insertion for plasma heating by ICH : Subcool required (id:720) Probe: Edge plasma measurement using the fast-scanning Langmuir probes (id:721) Insertion of sample, etc: Exposure of a material sample to divertor plasma by the manipulators (id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece																																														