

Daily Schedule

Prepared by

N.Tamura

Date	Experimental Subject																																															
2022/10/13(Thu)	Research of ICRF antenna property by the power modulation in LHD Investigation of edge impurity transport in detached plasma, Mitigation of tungsten induced plasma termination ICRF antenna property by the power modulation in LHD, Lithium powder injection for plasma modification in stellarator geometries																																															
Exp. No.	Topical Group						TGL					Sub-TGL																																				
1284	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]				[multi-ion]				D N																																				
Details and Experimental Conditions															Gas																																	
[instability Coordinator: M.Kobayashi](09:45 ~ 11:00) ECH, NBI, ICH 09:45-11:00 Research of ICRF antenna property by the power modulation in LHD (K. Saito) Maximum number of discharges : 40 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>CW</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		CW	3.6	1.0	1.2538	100.0		H2,Ar																	
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1		CW	3.6	1.0	1.2538	100.0																																										
[instability Coordinator: R.Seki](11:00 ~ 15:30) ECH, NBI, ICH 11:00-13:45 Investigation of edge impurity transport in detached plasma (E. Wang, M. Goto) 13:45-15:30 Mitigation of tungsten induced plasma termination (A. Dinklage, N. Tamura) Maximum number of discharges : 100 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>CW</td><td>3.9</td><td>1.0</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>1.375</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</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></table>															#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.9	1.0	1.2538	100.0		2		CW	3.9	1.375	1.2538	100.0		3		CW	3.6	2.75	1.2538	100.0		H2,Ne,Ar	
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[multi-ion Coordinator: M.Kobayashi](15:30 ~ 18:45) ECH, NBI, ICH 15:30-16:45 Research of ICRF antenna property by the power modulation in LHD (K. Saito) 16:45-18:45 Lithium powder injection for plasma modification in stellarator geometries (R. Lunsford) Maximum number of discharges : 80 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>CW</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		CW	3.6	2.75	1.2538	100.0		H2,Ar																	
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1		CW	3.6	2.75	1.2538	100.0																																										
Wall Conditioning		GD(Before Exp.): None , GD(After Exp.): H2 , Cryopump(During Exp.): on																																														
Remarks		(instability)FTS,TESPEL(W),CXS,PCI, reflectometry, NB3 gate valve(open) (multi-ion)Li-IPD [Precautions for today's LHD experiments] (id:676) Impurity pellet/TESPEL (id:678) Impurity powder dropper (id:696) ICH: IC wave injection into the vaccum (w/o plasma) (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:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece																																														