

Daily Schedule

Prepared by

S.Masuzaki
N.Tamura

Date	Experimental Subject																														
2022/12/13(Tue)	Isotope mass effects on sustainment of e-ITB plasma Effects of multi-ion and the magnetic field structure on non-local transport, Effect of magnetic islands on the bootstrap current in LHD/Study of the effect of the inversion of the magnetic shear on the e-ITB performance in stellarators with controlling the rotational transform by ECCD and NBCD Validation of established 0-dimensional wall model simulation for LHD																														
Exp. No.	Topical Group					TGL					Sub-TGL																				
1319	multi-ion/turbulence					N.Tamura/M.Kobayashi T.Tokuzawa [2337/2169, 2217]					H.Kasahara/G.Motojima A.Shimizu/T.Kobayashi/M.Nishiura/M.Nakata [2203/2142, 2454/2231/2184/2276]																				
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																
		U P	[multi-ion]			[turbulence]			[multi-ion]			D N																			
Details and Experimental Conditions														Gas																	
[multi-ion Coordinator: M.Kobayashi](09:45 ~ 12:15) ECH, NBI 9:45-12:15 Isotope mass effects on sustainment of e-ITB plasma(N. Kenmochi) Maximum number of discharges : 60 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></table>														#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.6	2.75	1.2538	100.0		H2	
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																								
1		CW	3.6	2.75	1.2538	100.0																									
[turbulence Coordinator: T.Kobayashi](12:15 ~ 15:45) ECH, NBI 12:15-14:15: Effects of multi-ion and the magnetic field structure on non-local transport (N. Kenmochi) 14:15-15:30: Effect of magnetic islands on the bootstrap current in LHD/Study of the effect of the inversion of the magnetic shear on the e-ITB performance in stellarators with controlling the rotational transform by ECCD and NBCD (A. Dinklage/H. Igami) 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>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																									
[multi-ion Coordinator: M.Kobayashi](15:45 ~ 18:45) ECH, NBI 15:45-18:45 Validation of established 0-dimensional wall model simulation for LHD(Z. Jiang, G. Motojima) Maximum number of discharges : 80 Sequence:3min30s <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></table>														#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.6	2.75	1.2538	100.0		H2	
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1		CW	3.6	2.75	1.2538	100.0																									
Wall Conditioning																															
		GD(Before Exp.): None , GD(After Exp.): None , Cryopump(During Exp.): on																													
Remarks																															
(multi-ion)FTS, fast CXS, BS (position scan), HIBP, MSE, PCI																															
(turbulence)FTS, fast CXS, BS (position scan), PCI, MSE, HIBP, all profile diagnostics, off-axis ECH, LID coil 3300A (multi-ion)Manipulator, 40sec ECH																															
[Precautions for today's LHD experiments] (id:677) Impurity gas puff (id:685) Mag. Conf.: Using LID coil (id:704) ECH: EC wave injection for more than 10 s (Combined) (id:705) ECH: off-axis injection (Combined) (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																															