

Daily Schedule

Prepared by

T.Tokuzawa
K.Nagaoka
G.Motojima

Date		Experimental Subject																																																																																						
2022/10/12(Wed)		Isotope effect of high Ti plasma Detachment and Wave Physics Research of ICRF antenna property by the power modulation in LHD																																																																																						
Exp. No.		Topical Group					TGL					Sub-TGL																																																																												
1283		turbulence/instability /multi-ion					T.Tokuzawa K.Nagaoka/Y.Takemura N.Tamura/M.Kobayashi [2217, 2177/2167, 2337/2169]					A.Shimizu/T.Kobayashi/M.Nishiura/M.Nakata R.Seki/N.Kenmochi H.Kasahara/G.Motojima [2454/2231/2184/2276, 2201/2208, 2203/2142]																																																																												
Time Table		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																																																																								
			U P	[turbul ence]	[instability]					[multi-ion]		D N																																																																												
Details and Experimental Conditions															Gas																																																																									
[turbulence Coordinator: T.Tokuzawa](09:45 ~ 11:00) ECH, NBI, ICH 9:45 - 11:00 Isotope effect of high Ti plasma (H. Sakai, K. Tanaka) Maximum number of discharges : 40 Sequence:3min															H2,D2,Ar																																																																									
<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,D2,Ar																																																									
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[instability Coordinator: K.Nagaoka](11:00 ~ 16:30) ECH, NBI, ICH 11:00-13:00 H. Igami [Observation of the electron cyclotron mazer instability in the fusion-oriented plasma] 13:20-14:20 Y. Yoshimura [Synergetic effect of 3rd harmonic ECH by 116GHz wave coupled with 2nd harmonic ECH by 77GHz wave] 14:20-16:30 A. Knieps/Y. Suzuki (Y. Takemura) [Observation of the electron cyclotron mazer instability in the fusion-oriented plasma] Maximum number of discharges : 120 Sequence:3min															H2,D2,Ar																																																																									
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[multi-ion Coordinator: G.Motojima](16:30 ~ 18:45) ECH, NBI, ICH Research of ICRF antenna property by the power modulation in LHD will be conducted. (K. Saito) Maximum number of discharges : 80 Sequence:3min															H2																																																																									
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Wall Conditioning		GD(Before Exp.): D2 , GD(After Exp.): H2 , Cryopump(During Exp.): on																																																																																						
Remarks		(turbulence)CXS(GV open of NBI#3), PCI high D purity D/(D+H) >0.7 (instability)ECH:1st X-mode inj, 77GHz, 116GHz, 154GHz Off-axis. ECCD, ICH for wall conditioning ECH: 2s-77GHz + mod. 116GHz 【Precautions for today's LHD experiments】 (id:691) Mag. Conf.: Subcool conditions (Combined) : Subcool required (id:696) ICH: IC wave injection into the vaccum (w/o plasma) (id:699) ECH: Fundamental X-mode injection from the high field side (id:703) ECH: EC wave Injection from the Port 1.5Uo antenna (id:705) ECH: off-axis injection (Combined) (id:706) ICH: Antennae insertion for plasma heating by ICH (id:712) NBI: Injection into the discharges with low fields (id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece																																																																																						