LHD project

Daily Schedule

Prepared by
T.Tokuzawa

Date	Experimental Subject
2022/11/23(Wed)	META-Stellarator, Isotope effects and nonlinear interaction of multi-scale turbulence, high performance conditions in pellet fuelled plasmas, Effect of magnetic islands on the bootstrap current/Effect of the inversion of the magnetic shear on the e-ITB performance

Exp. No.	Topical Group	TGL	Sub-TGL
1308	turbulence	T.Tokuzawa [2217]	A.Shimizu/T.Kobayashi/M. Nishiura/M.Nakata [2454/2231/2184/2276]

Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		UP	[turbulence]									DN			

Details and Experimental Conditions	Gas
[turbulence Coordinator: T.Tokuzawa](09:45 ～ 18:45) ECH, NBI 9:45-12:30 META-Stellarator: Comparison of scale-down LHD with H-J (S. Inagaki, T. Tokuzawa) 12:30-13:00 Magnetic field change 13:00-15:15 Isotope effects on plasma confinement properties and nonlinear interaction of multi-scale turbulence in LHD(J. Cheng, M. Kobayashi) 15:15-16:25 Feed-forward of high performance conditions in pellet fuelled plasmas(A.Dinklage, R. Sakamoto) 16:25-17:35 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) 17:35-18:45 Feed-forward of high performance conditions in pellet fuelled plasmas (A.Dinklage, R. Sakamoto) Maximum number of discharges : 180 Sequence:3min	D2,He,Ar

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CCW	3.6	1.375	1.2538	100.0	
2		CCW	3.9	1.375	1.2538	100.0	
3		CCW	3.6	2.75	1.2538	100.0	
4	✓	CCW	3.75	1.375	1.2538	100.0	
5	✓	CCW	3.8	2.6053	1.2538	100.0	
6	✓	CCW	3.8	2.7	1.2538	100.0	✓
7	✓	CCW	3.85	2.5714	1.2538	100.0	
8	✓	CCW	3.85	2.6649	1.2538	100.0	✓

Wall Conditioning

GD(Before Exp.): D2 , GD(After Exp.): None , Cryopump(During Exp.): on

Remarks

(turbulence)GPI,PCI, reflectometer,BES, CXRS,TS, ECE, CXS(H/D-profiles), H/D-pellets, O2-mode injetion ECH

【Precautions for today's LHD experiments】
(id:677) Impurity gas puff
(id:682) ECH: Low absorption condition
(id:705) ECH: off-axis injection (Combined)