LHD project

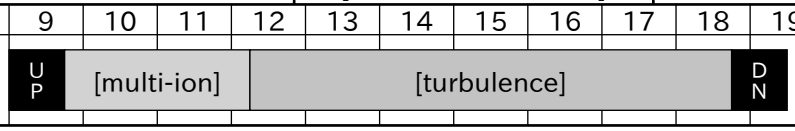
Daily Schedule

Prepared by
N.Tamura

Date	Experimental Subject
2022/10/4(Tue)	ECH commissioning Turbulence transition, Turbulence control, ETG turbulence threshold, Shear flows induced by EIC

Exp. No.	Topical Group	TGL	Sub-TGL
1279	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



Details and Experimental Conditions

Gas

[multi-ion Coordinator: T.Kobayashi](09:45 ～ 12:15) ECH, NBI, ICH
9:45-12:15 ECH commissioning (R. Yanai)

Maximum number of discharges : 60
Sequence:3min

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CW	3.6	2.75	1.2538	100.0	

Gas: H2,He

[turbulence Coordinator: T.Kobayashi](12:15 ～ 18:45) ECH, NBI, ICH
12:15-14:15 Turbulence transition (T. Kinoshita, K. Tanaka)
14:15-15:15 Turbulence control (H. Sakai, K. Tanaka)
15:15-17:15 ETG turbulence threshold (T. Nasu, T. Tokuzawa)
17:15-18:45 Shear flows induced by EIC (J. Varela, T. Tokuzawa)
Maximum number of discharges : 140
Sequence:3min

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CW	3.6	2.75	1.2538	100.0	
2		CW	3.55	2.7887	1.2538	100.0	
3		CW	3.6	1.375	1.2538	100.0	

Gas: H2,He,Ne,Ar,Kr

Wall Conditioning

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

Remarks

(turbulence)NBI modulation, ECH modulation Off-axis ECH, Impurity gas puff, LID, PCI, CXS, Thomson, FIR, Zeff, HIBP

【Precautions for today's LHD experiments】
(id:677) Impurity gas puff
(id:681) Mag. Conf.: 3.55 m =< Rax < 3.6 m
(id:685) Mag. Conf.: Using LID coil
(id:693) ECH: Commissioning (alignment, profile check)
(id:696) ICH: IC wave injection into the vaccum (w/o plasma)
(id:705) ECH: off-axis injection (Combined)
(id:706) ICH: Antennae insertion for plasma heating by ICH
(id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece