LHD project

Daily Schedule

Prepared by
Y.Takemura

Date	Experimental Subject
2022/12/21(Wed)	Radiative collapse, RMP effect on MHD, Topological bifurcation

Exp. No.	Topical Group	TGL	Sub-TGL
1325	instability	K.Nagaoka/Y.Takemura [2177/2167]	R.Seki/N.Kenmochi [2201/2208]

Time Table

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

Details and Experimental Conditions

[instability Coordinator: Takemura](09:30 ～ 18:45) ECH, NBI
10:00-12:00 Anomaly detection of radiation profile in radiative collapse (Mukai)
12:00-12:30 Change configuration
12:30-16:30 MHD instability suppression by RMP field (Ito)
16:30-17:00 Change configuration
17:00-18:45 Study of topological bifurcation (Suzuki)
Maximum number of discharges : 200
Sequence:3min

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CW	3.6	2.75	1.2538	100.0	
2		CW	3.9	2.5384	1.2538	100.0	
3		CW	3.75	1.7	1.2538	100.0	
4		CW	3.75	1.2	1.2538	100.0	
5		CW	3.75	0.75	1.2538	100.0	
6		CW	3.6	1.0	1.129	100.0	
7	✓	CW	3.6	1.375	1.2538	100.0	
8	✓	CW	3.65	1.375	1.2538	100.0	
9	✓	CW	3.7	1.375	1.2538	100.0	
10	✓	CW	3.75	1.375	1.2538	100.0	

Gas

H2,Ar

Wall Conditioning

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

Remarks

(instability)CXS, PCI, Fast Thomson, LID, DBS, HIBP(Cu)

【Precautions for today's LHD experiments】
(id:677) Impurity gas puff
(id:685) Mag. Conf.: Using LID coil
(id:694) Mag. Conf.: Exp. with low gamma (Combined)
(id:712) NBI: Injection into the discharges with low fields
(id:721) Insertion of sample, etc: Exposure of a material sample to divertor plasma by the manipulators