LHD project

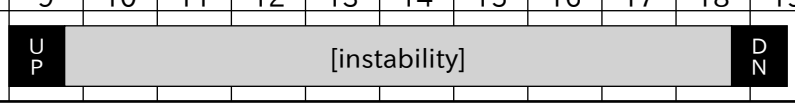
Daily Schedule

Prepared by
Y.Takemura

Date	Experimental Subject
2022/12/1(Thu)	Wave-particle interaction / Edge instability / CDC

Exp. No.	Topical Group	TGL	Sub-TGL
1313	instability	K.Nagaoka/Y.Takemura [2177/2167]	R.Seki/N.Kenmochi [2201/2208]

Time Table



Details and Experimental Conditions

[instability Coordinator: K.Nagaoka](09:00 ～ 18:45) ECH, NBI, ICH
9:45 -12:00 Production of anisotropic high energy electrons using flux swing in low magnetic field and excitation of RF waves in Whistler frequency range/AE excitation with fundamental resonance at low field plasma experiments (S. Kobayashi / K. nagaoka)
12:00 -13:00 0T for change the power supply circuit
13:00 -15:45 Physical mechanism of edge instability with collapse (Y. Takemura)
16:25 - 18:45 CDC dynamics and rotational transform/CDC dynamics and rotational transform (H.Thomsen / S. Ohdachi)
Maximum number of discharges : 180
Sequence:3min

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CCW	3.6	0.4	1.2538	100.0	
2		CCW	3.6	0.3	1.2538	100.0	
3		CCW	3.75	0.75	1.2538	100.0	
4		CCW	3.9	2.5385	1.2538	100.0	
5		CCW	3.75	2.64	1.2538	100.0	
6	✓	CCW	3.75	0.9	1.2538	100.0	
7	✓	CCW	3.775	0.9	1.2538	100.0	

Gas

H2,Ar

Wall Conditioning

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

Remarks

Vertical field sweep with pulse PS
(instability)Vertical field sweep, ICH plasma production, Non-resonant ECH
Fast Thomson, MSE, GPI, LID

【Precautions for today's LHD experiments】
(id:685) Mag. Conf.: Using LID coil
(id:696) ICH: IC wave injection into the vaccum (w/o plasma)
(id:712) NBI: Injection into the discharges with low fields
(id:715) Mag. Conf.: Vertical field sweep
(id:716) ECH: Non-resonant stochastic heating/acceleration