LHD project

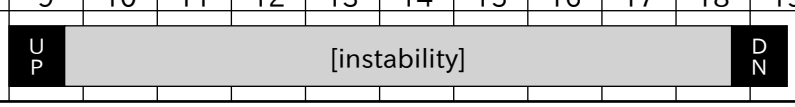
Daily Schedule

Prepared by
R.Seki

Date	Experimental Subject
2022/11/24(Thu)	Fast-Ion Stiffness in AE, Extension of total neutron emission database, Alpha particle confinement simulation, Estimation of the fast-ion confinement time

Exp. No.	Topical Group	TGL	Sub-TGL
1309	instability	K.Nagaoka/Y.Takemura [2177/2167]	R.Seki/N.Kenmochi [2201/2208]

Time Table



Details and Experimental Conditions

[instability Coordinator: R.Seki](09:45 ～ 18:45) ECH, NBI, ICH
9:45-11:00 Fast-Ion Stiffness in AE (S. Kamio, K. Nagaoka)
11:00-13:30 Extension of total neutron emission database (M. Isobe)
13:30-15:30 Alpha particle confinement simulation (K. Ogawa)
15:30-18:45 Estimation of the fast-ion confinement time (H. Nuga)
Maximum number of discharges : 190
Sequence:3min

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CCW	3.6	1.375	1.2538	100.0	
2		CCW	3.6	1.0	1.2538	100.0	
3		CCW	3.75	1.375	1.2538	100.0	
4		CCW	3.75	1.0	1.2538	100.0	
5		CCW	3.6	2.75	1.2538	100.0	
6		CCW	3.55	2.7887	1.2538	100.0	
7		CCW	3.55	2.89	1.2538	100.0	✓
8		CCW	3.75	2.64	1.2538	100.0	
9		CCW	3.9	2.5385	1.2538	100.0	

Gas

D2,Ar

Wall Conditioning

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

Remarks

(instability)CXS, FIDA, NAS, neutral density profile, NB blip

【Precautions for today's LHD experiments】
(id:681) Mag. Conf.: 3.55 m =< Rax < 3.6 m
(id:686) Probe: Insertion of Fast Ion Loss Diagnostics (8-O)
(id:689) NBI: Perpendicular NBI > 10 MJ
(id:691) Mag. Conf.: Subcool conditions (Combined) : Subcool required
(id:706) ICH: Antennae insertion for plasma heating by ICH : Subcool required
(id:712) NBI: Injection into the discharges with low fields