LHD project

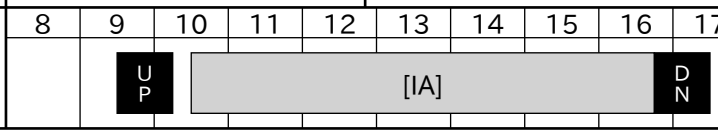
Daily Schedule

Prepared by
N.Tamura

Date	Experimental Subject
2024/4/24(Wed)	Investigation of turbulence spreading phenomena by gradient scan experiments, Stabilization of intrinsic detachment in high-beta operation, Impact of enhanced stochastization in outward-shifted configuration on the detachment density threshold

Exp. No.	Experimental Session Group	Session Coordinator
1354	IA	N.Kenmochi[2208] / T.Kawate[2256]

Time Table



Details and Experimental Conditions

[IA](10:30 ～ 16:45) ECH, NBI
10:30-14:25 Investigation of turbulence spreading phenomena by gradient scan experiments (N. Kenmochi)
14:25-14:35 NBI calib. (3 shots)
14:35-14:55 [Change of Mag. Config.: 3.75m, 2.64T -> 3.6m, 1.375T]
14:55-15:40 Stabilization of intrinsic detachment in high-beta operation(A. Knieps (FZJ), Y. Takemura)
[Change of Mag. Strength.: 1.375T -> 1T] will be done between 14:55 and 15:40.
15:40-15:50 [Change of Mag. Config.: 3.6m, 1T -> 3.9m, 1.375T]
15:50-16:45Impact of enhanced stochastization in outward-shifted configuration on the detachment density threshold(A. Knieps, Y. Takemura)
[Change of Mag. Strength.: 1.375T -> 1T] will be done between 15:50 and 16:45.

Sequence:3min

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

Gas

H2,Ar

Wall Conditioning

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

Remarks

(IA)Special Requirements: modulation of NBI#4, #5 for CXS diagnostics
Required Diag.: Fast CXS, Fast TS, PCI, BS(position scan), HIBP, MSE, DBS. CXS (pref.), Divertor LPs in fast Isat mode

【Precautions for today's LHD experiments】
(id:724) Impurity gas puff
(id:748) ECH: off-axis injection (Combined)
(id:752) NBI: Injection into the discharges with low fields