LHD project

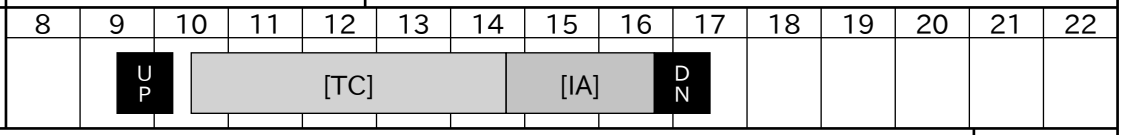
Daily Schedule

Prepared by
H.Igami N.Tamura

Date	Experimental Subject
2024/3/22(Fri)	ECH comissioning, Investigation of turbulence and heat propagation characteristics, Non-local heat transport from the peripheral region. Fast-ion losses induced by pellet injection on density limit.

Exp. No.	Experimental Session Group	Session Coordinator
1336	TC/IA	M.Yoshinuma[2172] / C.Suzuki[2255] R.Seki[2201] / N.Kenmochi[2208]

Time Table



Details and Experimental Conditions

Gas

[TC](10:30 ～ 14:45) ECH, NBI, ICH
10:30 - 12:15 ECH comissioning. (M.Nishiura, T. Seki)
12:15 - 12:24 NBI calib.
12:24 - MSE calib.
12:35 - 13:40 Investigation of turbulence and heat propagation characteristics. (N. Kenmochi)
13:40 - 14:40 Non-local heat transport from the peripheral region. (H. Igami)

NBI pattern: #2, (#2, #3, #4, #5) - (#3, #4, #5) - (#3, #4)

Sequence:3min

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

H2,Ar

[IA](14:45 ～ 16:45) ECH, NBI
14:40 - 16:45 Fast-ion losses induced by pellet injection on density limit. (B.L.Miranda, N. Tamura)

Sequence:3min

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

H2,Ar

Wall Conditioning

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

Remarks

(TC)fast TS, CXS, BS(position scan), HIBP, MSE, NBI#3 for MSE modulation of NBI#4 and #5

(IA)pellet, BES, CXS, HIBP, MSE, Neutral Particle Diagnostics(DNPA, FIDA)

【Precautions for today's LHD experiments】
(id:729) ECH: Low absorption condition
(id:737) ECH: Commissioning (alignment, profile check)
(id:743) ECH: Fundamental X-mode injection from the high field side
(id:746) ECH: EC wave Injection from the Port 1.5Uo antenna
(id:748) ECH: off-axis injection (Combined)
(id:749) ICH: Antennae insertion for plasma heating by ICH : Subcool required
(id:757) ECH: Optical Vortex injection