LHD project

Daily Schedule

Prepared by
T.Kawate T.Tokuzawa

Date	Experimental Subject
2022/11/2(Wed)	optimum ECH injection for plasma initiation, Detection of anisotropic electron velocity distribution Feedback controle using turbulence level, Density limit based on edge turbulenet transport Effect of the anisotropy of the electron velocity on the excitation of the waves

Exp. No.	Topical Group	TGL	Sub-TGL
1296	spectroscopy/turbulence	M. Goto T.Tokuzawa [2290, 2217]	M.Yoshinuma/T.Oishi/T.Kawate A.Shimizu/T.Kobayashi/M.Nishiura/M.Nakata [2172/2022/2256, 2454/2231/2184/2276]

Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		UP	[spectroscopy]			[turbulence]					[spectroscopy]	DN			

Details and Experimental Conditions	Gas
[spectroscopy Coordinator: TomokoKawate](09:45 ～ 11:45) ECH, NBI 9:45-11:50 Investigation of optimum ECH injection for plasma initiation (R. Yanai) 9:45-11:50 Detection of anisotropic electron velocity distribution via spectral line ratios (T. Kawate) Maximum number of discharges : 55 Sequence:3min	H2,Ar

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

[turbulence Coordinator: T.Tokuzawa](11:45 ～ 17:30) ECH, NBI, ICH 11:50-13:50 Feedback controle using turbulence level (H. Sakai, K. Tanaka) 13:50-17:30 Density limit based on edge turbulenet transport related to Tokamak new scaling (G.Motojima) Maximum number of discharges : 130 Sequence:3min	D2,Ar

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CCW	3.6	2.75	1.2538	100.0	
2		CCW	3.9	2.5385	1.2538	100.0	

[spectroscopy Coordinator: TomokoKawate](17:30 ～ 18:45) ECH, NBI 17:30-18:45 Effect of the anisotropy of the electron velocity on the excitation of the waves from the ion cyclotron to electron cyclotron frequency range via the nonlinear wave-wave coupling (H. Igami) Maximum number of discharges : 40 Sequence:3min	D2,Ar

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CCW	3.9	2.5384	1.2538	100.0	

Wall Conditioning

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

Remarks

(spectroscopy) Spectroscopy measurement for anisotropic electron velocity distribution
(turbulence)CXS, MSE, PCI, CO2, reflectometer
(spectroscopy)Ultra fast ECE, BES, CXS, FILD, FIDA

【Precautions for today's LHD experiments】
(id:677) Impurity gas puff
(id:682) ECH: Low absorption condition
(id:706) ICH: Antennae insertion for plasma heating by ICH : Subcool required
(id:720) Probe: Edge plasma measurement using the fast-scanning Langmuir probes
(id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece