LHD project

Daily Schedule

Prepared by
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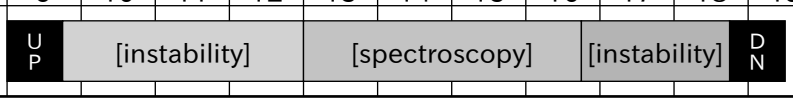
Date	Experimental Subject
2022/11/1(Tue)	Impact of combined NB and EC induced currents on the AEs activity Impurity transport with TESPEL injection Mitigation of tungsten induced plasma termination and idenfication of transient-transport mechanisms

Exp. No.	Topical Group	TGL	Sub-TGL
1295	instability/spectroscopy	K.Nagaoka/Y.Takemura M. Goto [2177/2167, 2290]	R.Seki/N.Kenmochi M.Yoshinuma/T.Oishi/T.Kawate [2201/2208, 2172/2022/2256]

Time Table



Details and Experimental Conditions

Gas

[instability Coordinator: N.Kenmochi](09:45 ～ 13:00) ECH, NBI — Gas: D2,Ar

9:45-13:05 Investigating the impact of combined NB and EC induced currents on the AEs activity in low density hydrogen plasmas(A. Cappa, K. Nagaoka)
Maximum number of discharges : 80
Sequence:3min

#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled
1		CCW	3.75	1.375	1.2538	100.0	
2		CCW	3.55	1.375	1.2538	100.0	

[spectroscopy Coordinator: M.Yoshinuma](13:00 ～ 16:45) ECH, NBI — Gas: D2,N2,Ar

13:05-15:15 Impurity transport study in LHD D/H plasmas using VUV spectroscopy in experiment with TESPEL injection (T.Fornal, N.Tamura)
15:15-16:45 Impurity transport study in LHD D/H plasmas using VUV spectroscopy in experiment with TESPEL injections (M.Kubkowska, N.Tamura)

Maximum number of discharges : 80
Sequence:3min

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

[instability Coordinator: N.Kenmochi](16:45 ～ 18:45) ECH, NBI, ICH — Gas: D2,Ar

16:45-18:45 Mitigation of tungsten induced plasma termination and idenfication of transient-transport mechanisms (A. Dinklage, N. Tamura)
Maximum number of discharges : 50
Sequence:3min

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

Wall Conditioning

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

Remarks

(instability)CXS,FIDA,MSE
(spectroscopy)CXS,Fast Thomson, SOXMOS
(instability)TESPEL(W), CXS, ECE, FTS(Fast Thomson), magentics, reflectometry (fast sampled)

【Precautions for today's LHD experiments】
(id:676) Impurity pellet/TESPEL
(id:677) Impurity gas puff
(id:681) Mag. Conf.: 3.55 m =< Rax < 3.6 m
(id:705) ECH: off-axis injection (Combined)
(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