

Daily Schedule

Prepared by

T.Oishi
K.Nagaoka

Date	Experimental Subject																																															
2022/11/17(Thu)	Fast ion diagnostics and physics research Abrupt phenomena and wave physics																																															
Exp. No.	Topical Group					TGL					Sub-TGL																																					
1305	spectroscopy/instability					M. Goto K.Nagaoka/Y.Takemura [2290, 2177/2167]					M.Yoshinuma/T.Oishi/T.Kawate R.Seki/N.Kenmochi [2172/2022/2256, 2201/2208]																																					
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																																	
		U P	[spectroscopy]						[instability]		D N																																					
Details and Experimental Conditions														Gas																																		
[spectroscopy Coordinator: TetsutarouOishi](09:45 ~ 16:15) ECH, NBI, ICH 9:45-11:00 Evaluation of slowing down process for energetic particle by FIDA diagnostics (Y. Kawamoto) 11:00-13:20 Investigation of broadband phase space dynamics from bulk ions to energetic ions in energetic particle driven instability (Y.Kawachi) 13:20-13:30 Magnetic configuration change 13:30-13:35 Data acquisition sequence change (3m30s -> 3m) 13:35-15:50 Diagnosis of fast ions in quiescent plasmas for comparison to predicted neoclassical confinement (W. Hayashi) (including magnetic configuration change once) 15:50-16:00 NBI calibration 16:00-16:15 Magnetic configuration change Maximum number of discharges : 130 Sequence:3min, 3min30s(Wall DC) <table><tr><th>#</th><th>Option</th><th>Polarity</th><th>Rax(m)</th><th>Bax(T)</th><th>gamma</th><th>Bq(%)</th><th>Subcooled</th></tr><tr><td>1</td><td></td><td>CCW</td><td>3.6</td><td>2.75</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>2</td><td></td><td>CCW</td><td>3.55</td><td>2.7887</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</td><td></td><td>CCW</td><td>3.7</td><td>2.6757</td><td>1.2538</td><td>100.0</td><td></td></tr></table>														#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CCW	3.6	2.75	1.2538	100.0		2		CCW	3.55	2.7887	1.2538	100.0		3		CCW	3.7	2.6757	1.2538	100.0		D2,He,Ar		
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[instability Coordinator: K.Nagaoka](16:15 ~ 18:45) ECH, NBI 16:15-18:45 Observation of waves excited by nonlinear wave-wave coupling during abrupt bursting events (H. Igami) Maximum number of discharges : 70 Sequence:3min <table><tr><th>#</th><th>Option</th><th>Polarity</th><th>Rax(m)</th><th>Bax(T)</th><th>gamma</th><th>Bq(%)</th><th>Subcooled</th></tr><tr><td>1</td><td></td><td>CCW</td><td>3.6</td><td>2.75</td><td>1.2538</td><td>100.0</td><td></td></tr></table>														#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CCW	3.6	2.75	1.2538	100.0		D2,Ar																		
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1		CCW	3.6	2.75	1.2538	100.0																																										
Wall Conditioning		GD(Before Exp.): D2 , GD(After Exp.): None , Cryopump(During Exp.): on																																														
Remarks		(spectroscopy)Data acquisition sequence starts from 3 min 30 sec (discharge cleaning mode), C pellets, FIDA, CXS, CTS, NPA, BNC, DBS, PCI, magnetics, FILD (instability)C pellets, FIDA, FTS, CXS 【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:686) Probe: Insertion of Fast Ion Loss Diagnostics (8-O) (id:702) ECH: Collective Thomson Scattering (CTS) measurement (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																																														