

Daily Schedule

Prepared by

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G.Motojima

Date	Experimental Subject																															
2022/10/21(Fri)	Tungsten spectroscopy Exposure of material, He mixture plasmas																															
Exp. No.	Topical Group						TGL					Sub-TGL																				
1289	spectroscopy/multi-ion						M. Goto N.Tamura/M.Kobayashi [2290, 2337/2169]					M.Yoshinuma/T.Oishi/T.Kawate H.Kasahara/G.Motojima [2172/2022/2256, 2203/2142]																				
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																	
		U P	[spectroscopy]						[multi-ion]				D N																			
Details and Experimental Conditions														Gas																		
[spectroscopy Coordinator: TetsutaroOishi](09:45 ~ 15:15) ECH, NBI 9:45-11:30 Simultaneous multi-wavelength spectroscopies for validation on atomic data and spectroscopic modelings for highly charged ions (I. Murakami) 11:30-13:00 Looking for interesting level populations in charge states of Tungsten around W36+ and possible uses in spectrometer relative intensity calibration (R. Hutton) 13:00-15:00 Expansion of the observable charge state range of tungsten ions (T. Oishi) 15:00-15:10 NBI calibration 3 shots Maximum number of discharges : 110 Sequence:3min <table><tr><td>#</td><td>Option</td><td>Polarity</td><td>Rax(m)</td><td>Bax(T)</td><td>gamma</td><td>Bq(%)</td><td>Subcooled</td></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		H2,Ar		
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[multi-ion Coordinator: GenMotojima](15:15 ~ 18:45) ECH, NBI, ICH 15:10-15:55 Exposure of material samples into the LHD edge plasma by means of the manipulator (C.P.Dhard(IPP), S. Masuzaki) 15:55-17:45 Investigation of He density profile in mixture plasmas (I.C. Chan, H.Yamada(U. Tokyo)) Characteristics of He plasma heated by ECH or by ECH + He-NBI (N. Tamura) 17:45-18:45 Helium removal in helium beam experiments (G. Motojima) Maximum number of discharges : 80 Sequence:3min <table><tr><td>#</td><td>Option</td><td>Polarity</td><td>Rax(m)</td><td>Bax(T)</td><td>gamma</td><td>Bq(%)</td><td>Subcooled</td></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		H2,He,Ar		
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Wall Conditioning																																
		GD(Before Exp.): None , Cryopump(During Exp.): on																														
Remarks		(spectroscopy)NBI#3 gate open (multi-ion)NBI#3 gate open, He beam 【Precautions for today's LHD experiments】 (id:676) Impurity pellet/TESPEL (id:677) Impurity gas puff (id:685) Mag. Conf.: Using LID coil (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:721) Insertion of sample, etc: Exposure of a material sample to divertor plasma by the manipulators (id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece																														