

Daily Schedule

Prepared by

T.Kawate
N.Tamura

Date	Experimental Subject																																						
2024/4/19(Fri)	Interplay of fast ions and impurities, Impurity exhaust by 3-ion heating electron-scale turbulence characteristics and its influence to transport, turbulence driven transport between LHD and W7-X																																						
Exp. No.	Experimental Session Group						Session Coordinator																																
1352	IA/TC						T.Kobayashi[2231] / M.Nishiura[2184] T.Kawate[2256] / K.Ogawa[2229]																																
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																								
		U P	[IA]				[TC]		D N																														
Details and Experimental Conditions														Gas																									
[IA](10:30 ~ 14:45) ECH, NBI, ICH 10:30-12:10 Interplay of fast ions and impurities in LHD in helium (D. Moseev (IPP), K. Tanaka) 12:10-12:20 NBI calibration (3 shots) 12:20-12:40 [Change of Mag. Config.: 3.6m, 2.75T -> 3.6m, 2.68T] 12:40-14:25 Impurity exhaust by 3-ion heating at LHD (D. Moseev (IPP), K. Tanaka) 14:25-14:45 [Change of Mag. Config.: 3.6m, 2.68T -> 3.6m, 2.75T] NBI pattern #3: (#2,#3,#4,#5) - (#2,#3,#4) - (#3,#4) 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>CW</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>CW</td><td>3.6</td><td>2.68</td><td>1.2538</td><td>100.0</td><td></td></tr></table>														#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.6	2.75	1.2538	100.0		2		CW	3.6	2.68	1.2538	100.0		H2,He,Ne ,Ar	
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[TC](14:45 ~ 16:45) ECH, NBI, ICH 14:45-15:15 Investigation of electron-scale turbulence characteristics and its influence to transport (T. Nasu) 15:15-15:25 [Change of Discharge Sequence: 3 min -> 3 min 30 sec (Wall DC)] 15:15-16:45 Comparison of turbulence driven transport between LHD and W7-X (H. Sakai) 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>CW</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		CW	3.6	2.75	1.2538	100.0		He,Ar									
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1		CW	3.6	2.75	1.2538	100.0																																	
Wall Conditioning																																							
GD(Before Exp.): He , Cryopump(During Exp.): off																																							
Remarks																																							
(IA)ICH, EUV/VUV spectrometers(Fe, W), CXS(H/He, F, Ne), TESPEL (TC)Off-axis ECH, LID (14:45-15:15), PCI, CXS, HIBP, Ti crystal, Zeff, FIR, Thomson [Precautions for today's LHD experiments] (id:723) Impurity pellet/TESPEL (id:724) Impurity gas puff (id:731) Mag. Conf.: Using LID coil (id:747) ECH: EC wave injection for more than 10 s (Combined) (id:748) ECH: off-axis injection (Combined) (id:749) ICH: Antennae insertion for plasma heating by ICH : Subcool required																																							