

Daily Schedule

Prepared by

N.Tamura

Date	Experimental Subject																																																																																								
2022/10/7(Fri)	Beta effect on edge transport, Optical vortex ECH The investigation of the impurity shielding performance of the ergodic layer by a systematic scan of the dust dropping rate using the impurity Powder Droppe, Comissioning of ICH in D(H) plasmas EBW																																																																																								
Exp. No.	Topical Group					TGL					Sub-TGL																																																																														
1282	instability/multi-ion					K.Nagaoka/Y.Takemura N.Tamura/M.Kobayashi [2177/2167, 2337/2169]					R.Seki/N.Kenmochi H.Kasahara/G.Motojima [2201/2208, 2203/2142]																																																																														
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																																																																										
		U P	[instability]			[multi-ion]				[instability]		D N																																																																													
Details and Experimental Conditions															Gas																																																																										
[instability Coordinator: Y.Takemura](09:30 ~ 12:45) ECH, NBI 9:45-12:45 Beta effect on edge transport(Knieps) piggyback Commissioning of optical vortex ECH(Tsujimura) Maximum number of discharges : 120 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>3.9</td><td>1.0</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>2.75</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</td><td>✓</td><td>CW</td><td>3.75</td><td>1.0</td><td>1.2538</td><td>100.0</td><td></td></tr></table>															#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.9	1.0	1.2538	100.0		2	✓	CW	3.6	2.75	1.2538	100.0		3	✓	CW	3.75	1.0	1.2538	100.0		H2,D2																																										
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[multi-ion Coordinator: H.Kasahara](12:45 ~ 17:15) ECH, NBI, ICH 13:15-15:20 Dust dropping experiment using the impurity Powder Dropper (M. Shoji) Mag. Conf. to be used: #1, #2, (#5) 15:20-17:20 Commissioning of ICH in D(H) plasmas (H. Kasahara, ICH group) Mag. Conf. to be used: #2, #3, (#6), (#7), #4, (#8) Maximum number of discharges : 120 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>3.75</td><td>2.64</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>2.75</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</td><td></td><td>CW</td><td>3.6</td><td>2.735</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>4</td><td></td><td>CW</td><td>3.6</td><td>2.6</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>5</td><td>✓</td><td>CW</td><td>3.9</td><td>2.5385</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>6</td><td>✓</td><td>CW</td><td>3.6</td><td>2.65</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>7</td><td>✓</td><td>CW</td><td>3.6</td><td>2.63</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>8</td><td>✓</td><td>CW</td><td>3.6</td><td>2.58</td><td>1.2538</td><td>100.0</td><td></td></tr></table>															#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.75	2.64	1.2538	100.0		2		CW	3.6	2.75	1.2538	100.0		3		CW	3.6	2.735	1.2538	100.0		4		CW	3.6	2.6	1.2538	100.0		5	✓	CW	3.9	2.5385	1.2538	100.0		6	✓	CW	3.6	2.65	1.2538	100.0		7	✓	CW	3.6	2.63	1.2538	100.0		8	✓	CW	3.6	2.58	1.2538	100.0		H2,D2,Ar		
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[instability Coordinator: Y.Takemura](17:15 ~ 18:45) ECH, NBI 17:45-18:45 Electron Bernstein wave emission experiment(Igami) Maximum number of discharges : 30 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>3.56</td><td>1.0</td><td>1.2538</td><td>100.0</td><td></td></tr></table>															#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.56	1.0	1.2538	100.0		H2,D2																																																										
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		GD(Before Exp.): None , Cryopump(During Exp.): off																																																																																							
Remarks																																																																																									
		(instability)Fast TS, Divertor Langmuir probe with fast mode (multi-ion)Various dust (B, C, Li) drop, measurement of the high-speed stereo camera (newly installed at 2.5-U), measurement of boron density distribution by CXS, measurement of various impurities in the plasma periphery Ion temperature distribution by CXS, Fast ion measurement by FIDA, High sensitivity H, D ratio measurement 【Precautions for today's LHD experiments】 (id:677) Impurity gas puff (id:678) Impurity powder dropper (id:696) ICH: IC wave injection into the vaccum (w/o plasma) (id:706) ICH: Antennae insertion for plasma heating by ICH : Subcool required (id:712) NBI: Injection into the discharges with low fields (id:718) ECH: Optical Vortex injection : Subcool required (id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece																																																																																							