

24th 2nd week(10/03/22 - 10/07/22) schedule for LHD experiment

Weekly report : H.Takahashi

Date	Day of the week	Bt direction	Schedule of the day										Wall	Gas	Experiment implementation system	Remark					
			Morning (～ 12:15)					Afternoon (12:15 ～ 18:45)													
10/3	Mo.												Sat: H2 GD Sun: H2 GD Mon: None								
10/4	Tu.	CW	[multi-ion](09:45 ～ 12:15)ECH, NBI, ICH ECH commissioning # Opt. Pol. Rax Bax gamma Bq SC 1 CW 3.6 2.75 1.2538 100.0					[turbulence](12:15 ～ 18:45)ECH, NBI, ICH Turbulence transition, Turbulence control, ETG turbulence threshold, Shear flows induced by EIC # Opt. Pol. Rax Bax gamma Bq SC 1 CW 3.6 2.75 1.2538 100.0 2 CW 3.55 2.7887 1.2538 100.0 3 CW 3.6 1.375 1.2538 100.0					None Div Cryo	H2, He, Ne, Ar, Kr	[Responsible person]K.Ida / M.Kobayashi [ECH]H.Takahashi/H.Igami [NBI]K.Ikeda [central ctrl./data proc.]Ohsuna, Ogawa / Ohsuna, Yasui [radiation]T.Kobuchi [EXP LAN]Inoue/Yamamoto [TGL]N.Tamura/M.Kobayashi, T.Tokuzawa [SubTGL]H.Kasahara/G.Motojima, A.Shimizu/T.Kobayashi/M.Nishiura /M.Nakata	(turbulence)NBI modulation, ECH modulation Off-axis ECH, Impurity gas puff, LID, PCI, CXS, Thomson, FIR, Zeff, HIBP (id:677) Impurity gas puff (id:681) Mag. Conf.: 3.55 m =< Rax < 3.6 m (id:685) Mag. Conf.: Using LID coil (id:693) ECH: Commissioning (alignment, profile check) (id:696) ICH: IC wave injection into the vacuum (w/o plasma) (id:705) ECH: off-axis injection (Combined) (id:706) ICH: Antennae insertion for plasma heating by ICH : Subcool required (id:722) Insertion of sample, etc:					
10/5	We.	CW	[multi-ion](09:45 ～ 13:45)ECH, NBI, ICH ECH commissioning, Study for the real-time boronization using the impurity powder dropper # Opt. Pol. Rax Bax gamma Bq SC 1 CW 3.6 2.75 1.2538 100.0					[spectroscopy](13:45 ～ 16:45)ECH, NBI impurity transport using TESPEL injections # Opt. Pol. Rax Bax gamma Bq SC 1 CW 3.6 2.75 1.2538 100.0					[multi-ion](16:45 ～ 18:45)ECH, NBI, ICH Poloidal and toroidal asymmetries of plasma radiation during impurity seeding # Opt. Pol. Rax Bax gamma Bq SC 1 CW 3.75 2.64 1.2538 100.0					None	H2, He, N2, Ne, Ar	[Responsible person]R.Sakamoto / Y.Takemura [ECH]R.Yanai [NBI]Y.Kawamoto [central ctrl./data proc.]Ohsuna, Ogawa / Ohsuna, Yasui [radiation]M.Tanaka [EXP LAN]Nakamura/Watanabe [TGL]N.Tamura/M.Kobayashi, M. Goto [SubTGL]H.Kasahara/G.Motojima, M.Yoshinuma/T.Oishi/T.Kawate	(multi-ion)Manipulator(4.5L, 10.5L), IPD(B), BES, CXS (spectroscopy)TESPEL injection, open NBI#3 gate (multi-ion)RMP(60) (id:676) Impurity pellet/ TESPEL (id:677) Impurity gas puff (id:678) Impurity powder dropper (id:685) Mag. Conf.: Using LID coil (id:693) ECH: Commissioning (alignment, profile check) (id:696) ICH: IC wave injection into the vacuum (w/o plasma) (id:706) ICH: Antennae insertion for plasma heating by ICH : Subcool required
10/6	Th.	CW	[multi-ion](09:45 ～ 12:15)ECH, NBI, ICH ICH commissioning # Opt. Pol. Rax Bax gamma Bq SC 1 CW 3.6 2.75 1.2538 100.0					[spectroscopy](12:15 ～ 18:45)ECH, NBI Edge impurity transport # Opt. Pol. Rax Bax gamma Bq SC 1 CW 3.6 2.75 1.2538 100.0 2 CW 3.75 2.64 1.2538 100.0 3 CW 3.9 2.5385 1.2538 100.0 4 ✓ CW 3.7 2.6757 1.2538 100.0 5 ✓ CW 3.8 2.6053 1.2538 100.0					None	H2, He, Ar, Ne	[Responsible person]S.Masuzaki / N.Tamura [ECH]N.Kenmochi [NBI]K.Ikeda [central ctrl./data proc.]Ohsuna, Ogawa / Ohsuna, Maeno [radiation]M.Kobayashi [EXP LAN]Inoue/Nakamura [TGL]N.Tamura/M.Kobayashi, M. Goto [SubTGL]H.Kasahara/G.Motojima, M.Yoshinuma/T.Oishi/T.Kawate	(spectroscopy)NBI#3 gate open for CXS measurement (id:677) Impurity gas puff (id:696) ICH: IC wave injection into the vacuum (w/o plasma) (id:704) ECH: EC wave injection for more than 10 s (Combined) (id:706) ICH: Antennae insertion for plasma heating by ICH : Subcool required (id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece					
10/7	Fr.	CW	[instability](09:30 ～ 12:45)ECH, NBI Beta effect on edge transport, Optical vortex ECH # Opt. Pol. Rax Bax gamma Bq SC 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					[multi-ion](12:45 ～ 17:15)ECH, NBI, ICH 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, Commissioning of ICH in D(H) # Opt. Pol. Rax Bax gamma Bq S 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					[instability](17:15 ～ 18:45)ECH, NBI EBW # Opt. Pol. Rax Bax gamma Bq SC 1 CW 3.56 1.0 1.2538 100.0					None	H2, D2, Ar	[Responsible person]K.Tanaka / K.Nagaoka [ECH]Y.Yoshimura [NBI]K.Nagaoka [central ctrl./data proc.]Ohsuna, Ogawa / Ohsuna, Maeno [radiation]T.Saze [EXP LAN]Inoue/Watanabe [TGL]K.Nagaoka/Y.Takemura, N.Tamura/M.Kobayashi [SubTGL]R.Seki/N.Kenmochi, H.Kasahara/G.Motojima	(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 (id:677) Impurity gas puff (id:678) Impurity powder dropper (id:696) ICH: IC wave injection into the vacuum (w/o plasma) (id:706) ICH: Antennae insertion for plasma heating by ICH : Subcool

Daily Schedule

Prepared by

N.Tamura

Date	Experimental Subject																																															
2022/10/4(Tue)	ECH commissioning Turbulence transition, Turbulence control, ETG turbulence threshold, Shear flows induced by EIC																																															
Exp. No.	Topical Group					TGL					Sub-TGL																																					
1279	multi-ion/turbulence					N.Tamura/M.Kobayashi T.Tokuzawa [2337/2169, 2217]					H.Kasahara/G.Motojima A.Shimizu/T.Kobayashi/M.Nishiura/M.Nakata [2203/2142, 2454/2231/2184/2276]																																					
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																																	
		U P	[multi-ion]			[turbulence]						D N																																				
Details and Experimental Conditions														Gas																																		
[multi-ion Coordinator: T.Kobayashi](09:45 ~ 12:15) ECH, NBI, ICH 9:45-12:15 ECH commissioning (R. Yanai) Maximum number of discharges : 60 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>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		H2,He																		
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1		CW	3.6	2.75	1.2538	100.0																																										
[turbulence Coordinator: T.Kobayashi](12:15 ~ 18:45) ECH, NBI, ICH 12:15-14:15 Turbulence transition (T. Kinoshita, K. Tanaka) 14:15-15:15 Turbulence control (H. Sakai, K. Tanaka) 15:15-17:15 ETG turbulence threshold (T. Nasu, T. Tokuzawa) 17:15-18:45 Shear flows induced by EIC (J. Varela, T. Tokuzawa) Maximum number of discharges : 140 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>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>3.55</td><td>2.7887</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>1.375</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	3.55	2.7887	1.2538	100.0		3		CW	3.6	1.375	1.2538	100.0		H2,He,Ne ,Ar,Kr		
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GD(Before Exp.): None , GD(After Exp.): None , Cryopump(During Exp.): on																																																
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(turbulence)NBI modulation, ECH modulation Off-axis ECH, Impurity gas puff, LID, PCI, CXS, Thomson, FIR, Zeff, HIBP [Precautions for today's LHD experiments] (id:677) Impurity gas puff (id:681) Mag. Conf.: 3.55 m =< Rax < 3.6 m (id:685) Mag. Conf.: Using LID coil (id:693) ECH: Commissioning (alignment, profile check) (id:696) ICH: IC wave injection into the vaccum (w/o plasma) (id:705) ECH: off-axis injection (Combined) (id:706) ICH: Antennae insertion for plasma heating by ICH (id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece																																																

Daily Schedule

Prepared by

N.Tamura

Date	Experimental Subject																															
2022/10/5(Wed)	ECH comissioning, Study for the real-time boronization using the impurity powder dropper impurity transport using TESPEL injections Poloidal and toroidal asymmetries of plasma radiation during impurity seeding																															
Exp. No.	Topical Group					TGL					Sub-TGL																					
1280	multi-ion/spectroscopy					N.Tamura/M.Kobayashi M. Goto [2337/2169, 2290]					H.Kasahara/G.Motojima M.Yoshinuma/T.Oishi/T.Kawate [2203/2142, 2172/2022/2256]																					
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																	
		U P	[multi-ion]				[spectroscopy]			[multi-ion]		D N																				
Details and Experimental Conditions														Gas																		
[multi-ion Coordinator: M.Kobayashi](09:45 ~ 13:45) ECH, NBI, ICH 09:45-12:15 ECH Comissioning (R. Yanai) 12:15-13:45 The evaluation of the toroidal uniformity of the boron deposition on the divertor plates for the real-time boronization using the impurity powder dropper (M. Shoji) Maximum number of discharges : 120 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>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		H2,He,N2 ,Ne		
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																									
1		CW	3.6	2.75	1.2538	100.0																										
[spectroscopy Coordinator: T.Kawate](13:45 ~ 16:45) ECH, NBI 13:45-16:45 Impurity Transport for a Wide Range of Various Impurity Species Using TESPEL Injections (A. Langenberg, N. Tamura) Maximum number of discharges : 70 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>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		H2,Ar		
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																									
1		CW	3.6	2.75	1.2538	100.0																										
[multi-ion Coordinator: M.Kobayashi](16:45 ~ 18:45) ECH, NBI, ICH 16:45-18:45 Study of poloidal and toroidal asymmetries during impurity seeding in LHD (B. Peterson, K. Mukai) Maximum number of discharges : 70 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>CW</td><td>3.75</td><td>2.64</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		H2,He,N2 ,Ne		
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(multi-ion)Manipulator(4.5L, 10.5L), IPD(B), BES, CXS (spectroscopy)TESPEL injection, open NBI#3 gate (multi-ion)RMP(6O) [Precautions for today's LHD experiments] (id:676) Impurity pellet/TESPEL (id:677) Impurity gas puff (id:678) Impurity powder dropper (id:685) Mag. Conf.: Using LID coil (id:693) ECH: Commissioning (alignment, profile check) (id:696) ICH: IC wave injection into the vaccum (w/o plasma) (id:706) ICH: Antennae insertion for plasma heating by ICH (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																																

Daily Schedule

Prepared by

N.Tamura

Date	Experimental Subject																																																															
2022/10/6(Thu)	ICH commissioning Edge impurity transport																																																															
Exp. No.	Topical Group					TGL					Sub-TGL																																																					
1281	multi-ion/spectroscopy					N.Tamura/M.Kobayashi M. Goto [2337/2169, 2290]					H.Kasahara/G.Motojima M.Yoshinuma/T.Oishi/T.Kawate [2203/2142, 2172/2022/2256]																																																					
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Details and Experimental Conditions														Gas																																																		
[multi-ion Coordinator: T.Oishi](09:45 ~ 12:15) ECH, NBI, ICH 9:45-12:15 ICH commissioning (H. Kasahara) Maximum number of discharges : 60 Sequence:3min30s <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>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		H2,He,Ar																																		
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1		CW	3.6	2.75	1.2538	100.0																																																										
[spectroscopy Coordinator: T.Nishizawa,T.Kobayashi](12:15 ~ 18:45) ECH, NBI 12:15-18:45 Study of edge impurity transport by utilizing multiple spectroscopy diagnostics (T. Nishizawa, T. Kobayashi) Maximum number of discharges : 140 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>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>3.75</td><td>2.64</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</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>4</td><td>✓</td><td>CW</td><td>3.7</td><td>2.6757</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>5</td><td>✓</td><td>CW</td><td>3.8</td><td>2.6053</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	3.75	2.64	1.2538	100.0		3		CW	3.9	2.5385	1.2538	100.0		4	✓	CW	3.7	2.6757	1.2538	100.0		5	✓	CW	3.8	2.6053	1.2538	100.0		H2,Ne,Ar		
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【Precautions for today's LHD experiments】 (id:677) Impurity gas puff (id:696) ICH: IC wave injection into the vaccum (w/o plasma) (id:704) ECH: EC wave injection for more than 10 s (Combined) (id:706) ICH: Antennae insertion for plasma heating by ICH (id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece																																																																

Daily Schedule

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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]																																																																												
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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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2	✓	CW	3.6	2.75	1.2538	100.0																																																																																			
3	✓	CW	3.75	1.0	1.2538	100.0																																																																																			
[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		
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																																																																																		
1		CW	3.75	2.64	1.2538	100.0																																																																																			
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8	✓	CW	3.6	2.58	1.2538	100.0																																																																																			
[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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1		CW	3.56	1.0	1.2538	100.0																																																																																			
Wall Conditioning																																																																																									
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																																																																																							