

25th 7th week(04/22/24 - 04/26/24) schedule for LHD experiment

Weekly report :

Date	Day of the week	Bt direction	Schedule of the day					Wall	Gas	Experiment implementation system	Remark																																																								
			Morning (~ 12:15)			Afternoon (12:15 ~ 16:45)																																																													
4/22	Mo.							Sat: H2 GD  Sun: H2 GD  Mon: None																																																											
4/23	Tu.	CW	[MAP](10:30 ~ 16:45)ECH, NBI Database construction of boron ion emission lines, Effect of boron impurity powder injection on tungsten impurity transport in the LHD core plasma, Spectroscopic analysis of divertor detachment, The sustainment of divertor detachment by injection of impurity dust particles into the magnetic island in the LHD peripheral plasma using the IPD <table border="1"> <thead> <tr> <th>#</th> <th>Opt. Pol.</th> <th>Rax</th> <th>Bax</th> <th>gamma</th> <th>Bq</th> <th>SC</th> </tr> </thead> <tbody> <tr> <td>1</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>CW</td> <td>3.9</td> <td>2.5385</td> <td>1.2538</td> <td>100.0</td> <td></td> </tr> <tr> <td>3</td> <td>CW</td> <td>3.9</td> <td>1.375</td> <td>1.2538</td> <td>100.0</td> <td></td> </tr> </tbody> </table>					#	Opt. Pol.	Rax	Bax	gamma	Bq	SC	1	CW	3.6	2.75	1.2538	100.0		2	CW	3.9	2.5385	1.2538	100.0		3	CW	3.9	1.375	1.2538	100.0		He GD	H2, Ar	[Responsible person]T.Seki / H.Hayashi [Coordinator#1]R. Yanai [Coordinator#2]G. Motojima [ECH]M.Nishiura [Gas·vacuum·shutter]B/C [Low temp.]noguchi.hiroki [LID power]M.Kawai/K.Nagahara [Coil power]takami.shigeyuki [central ctrl.]ogawa.hideki [data proc.]M.Ohsuna [EXP LAN]inoue.tomoyuki	(MAP)Spectroscopy, CXS (Ti, Er), Fast camera, IPD (B, Si), impurity pellet (B, W), LID (13:50-16:45) (id:723) Impurity pellet/TESPEL (id:724) Impurity gas puff (id:731) Mag. Conf.: Using LID coil (id:752) NBI: Injection into the discharges with low fields (id:762) Impurity powder dropper																												
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4/26	Fr.	CW	[MAP](10:30 ~ 16:45)ECH, NBI Multi-wavelength spectroscopy of highly charged ions, Solid hydrogen pellet injection, Pellet fuelling efficiency, Edge impurity transport <table border="1"> <thead> <tr> <th>#</th> <th>Opt. Pol.</th> <th>Rax</th> <th>Bax</th> <th>gamma</th> <th>Bq</th> <th>SC</th> </tr> </thead> <tbody> <tr> <td>1</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>CW</td> <td>3.6</td> <td>2.0</td> <td>1.2538</td> <td>100.0</td> <td></td> </tr> <tr> <td>3</td> <td>CW</td> <td>3.6</td> <td>1.375</td> <td>1.2538</td> <td>100.0</td> <td></td> </tr> <tr> <td>4</td> <td>CW</td> <td>3.6</td> <td>1.0</td> <td>1.2538</td> <td>100.0</td> <td></td> </tr> </tbody> </table>					#	Opt. Pol.	Rax	Bax	gamma	Bq	SC	1	CW	3.6	2.75	1.2538	100.0		2	CW	3.6	2.0	1.2538	100.0		3	CW	3.6	1.375	1.2538	100.0		4	CW	3.6	1.0	1.2538	100.0		Div Cryo	H2, Ne, Ar	[Responsible person]S.Sakakibara / H.Hayashi [Coordinator#1]R.T. Ishikawa [Coordinator#2]K. Mukai [ECH]R.Yanai [Gas·vacuum·shutter]B/C [Low temp.]noguchi.hiroki [LID power]M.Kawai/K.Nagahara [Coil power]tanoue.hiroyuki [central ctrl.]ogawa.hideki [data proc.]M.Ohsuna [EXP LAN]nakamura.osamu	(MAP)Impurity pellet, Fast TS, EUV/VUV & Div. VIS spectrometers (set for neon line emissions), Divertor LPs, Bolometers (id:723) Impurity pellet/TESPEL (id:724) Impurity gas puff (id:752) NBI: Injection into the discharges with low fields																					
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# Daily Schedule

Prepared by
R.Yanai

Date	Experimental Subject														
2024/4/23(Tue)	Database construction of boron ion emission lines, Effect of boron impurity powder injection on tungsten impurity transport in the LHD core plasma, Spectroscopic analysis of divertor detachment, The sustainment of divertor detachment by injection of impurity dust particles into the magnetic island in the LHD peripheral plasma using the IPD														
Exp. No.	Experimental Session Group							Session Coordinator							
1353	MAP							R. Yanai[2163] / G. Motojima[2142]							
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		UP	[MAP]							DN					

Details and Experimental Conditions	Gas																																
<p>[MAP](10:30 ~ 16:45) ECH, NBI                      10:30-11:30 Database construction of boron ion emission lines (M. Goto)                      11:30-11:40 NBI calib. (3 shots)                      11:40-13:30 Effect of boron impurity powder injection on tungsten impurity transport in the LHD core plasma (T. Oishi (Tohoku Univ.))                      13:30-13:50 [Change of Mag. Config.: 3.6 m, 2.75 T -&gt; 3.9 m, 2.5385 T]                      13:50-14:50 Spectroscopic analysis of divertor detachment (M. Goto)                      14:50-15:10 [Change of Mag. Config.: 3.9 m, 2.5385 T -&gt; 3.9 m, 1.375 T]                      15:10-16:45 The sustainment of divertor detachment by injection of impurity dust particles into the magnetic island in the LHD peripheral plasma using the IPD (M. Shoji)</p> <p>Sequence:3min</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <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> </thead> <tbody> <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>3.9</td> <td>2.5385</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>1.375</td> <td>1.2538</td> <td>100.0</td> <td></td> </tr> </tbody> </table>	#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.6	2.75	1.2538	100.0		2		CW	3.9	2.5385	1.2538	100.0		3		CW	3.9	1.375	1.2538	100.0		H2,Ar
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Wall Conditioning	GD(Before Exp.): None , GD(After Exp.): He , Cryopump(During Exp.): off
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Remarks	<p>(MAP)Spectroscopy, CXS (Ti, Er), Fast camera, IPD (B, Si), impurity pellet (B, W), LID (13:50-16:45)</p> <p>【Precautions for today's LHD experiments】                      (id:723) Impurity pellet/TESPEL                      (id:724) Impurity gas puff                      (id:731) Mag. Conf.: Using LID coil                      (id:752) NBI: Injection into the discharges with low fields                      (id:762) Impurity powder dropper</p>
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# Daily Schedule

Prepared by
N.Tamura

Date	Experimental Subject														
2024/4/24(Wed)	Investigation of turbulence spreading phenomena by gradient scan experiments, Stabilization of intrinsic detachment in high-beta operation, Impact of enhanced stochastization in outward-shifted configuration on the detachment density threshold														
Exp. No.	Experimental Session Group							Session Coordinator							
1354	IA							N.Kenmochi[2208] / T.Kawate[2256]							
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		UP	[IA]							DN					

Details and Experimental Conditions	Gas																																																																
<p>[IA](10:30 ~ 16:45) ECH, NBI                      10:30-14:25 Investigation of turbulence spreading phenomena by gradient scan experiments (N. Kenmochi)                      14:25-14:35 NBI calib. (3 shots)                      14:35-14:55 [Change of Mag. Config.: 3.75m, 2.64T -&gt; 3.6m, 1.375T]                      14:55-15:40 Stabilization of intrinsic detachment in high-beta operation(A. Knieps (FZJ), Y. Takemura)                      # [Change of Mag. Strength.: 1.375T -&gt; 1T ] will be done between 14:55 and 15:40.                      15:40-15:50 [Change of Mag. Config.: 3.6m, 1T -&gt; 3.9m, 1.375T]                      15:50-16:45 Impact of enhanced stochastization in outward-shifted configuration on the detachment density threshold(A. Knieps, Y. Takemura)                      # [Change of Mag. Strength.: 1.375T -&gt; 1T ] will be done between 15:50 and 16:45.</p> <p>Sequence:3min</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <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> </thead> <tbody> <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>1.375</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>1.0</td><td>1.2538</td><td>100.0</td><td></td></tr> <tr><td>4</td><td></td><td>CW</td><td>3.9</td><td>1.375</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>1.0</td><td>1.2538</td><td>100.0</td><td></td></tr> <tr><td>6</td><td style="text-align: center;">✓</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>7</td><td style="text-align: center;">✓</td><td>CW</td><td>3.9</td><td>2.5385</td><td>1.2538</td><td>100.0</td><td></td></tr> </tbody> </table>	#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.75	2.64	1.2538	100.0		2		CW	3.6	1.375	1.2538	100.0		3		CW	3.6	1.0	1.2538	100.0		4		CW	3.9	1.375	1.2538	100.0		5		CW	3.9	1.0	1.2538	100.0		6	✓	CW	3.6	2.75	1.2538	100.0		7	✓	CW	3.9	2.5385	1.2538	100.0		H2,Ar
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# Daily Schedule

Prepared by
N.Tamura

Date	Experimental Subject														
2024/4/25(Thu)	Electron-scale turbulence and its influence to transport, Effect of magnetic field geometry on zonal flow Fast ion measurements in quiescent plasmas														
Exp. No.	Experimental Session Group							Session Coordinator							
1355	TC/IA							M.Yoshinuma[2172] / H.Nakano[2209] M.Goto[2290] / N.Kenmochi[2208]							
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		U P	[TC]				[IA]			D N					

Details and Experimental Conditions	Gas																																
<p>[TC](10:30 ~ 14:15) ECH, NBI                      10:30-13:00 Investigation of electron-scale turbulence and its influence on transport (T. Nasu)                      13:00-14:15 Verification of the effect of magnetic field geometry on zonal flow in 3D confined configuration (S. Satake)</p> <p>Sequence:3min</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <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> </thead> <tbody> <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>3.7</td><td>2.6757</td><td>1.2538</td><td>100.0</td><td></td></tr> </tbody> </table>	#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.6	2.75	1.2538	100.0		2		CW	3.7	2.6757	1.2538	100.0		H2,Ar								
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<p>[IA](14:15 ~ 16:45) ECH, NBI                      14:15-16:45 Diagnosis of fast ions in quiescent plasmas for comparison to predicted neoclassical confinement (W. Hayashi (UCI), M. Osakabe)                      # [Change of Mag. Config.: 3.7m, 2.6757T -&gt; 3.6m, 2.75T(Option) -&gt; 3.55m, 2.7887T] will be during 14:15-16:45</p> <p>Sequence:3min</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <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> </thead> <tbody> <tr> <td>1</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>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>2.75</td><td>1.2538</td><td>100.0</td><td></td></tr> </tbody> </table>	#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.7	2.6757	1.2538	100.0		2		CW	3.55	2.7887	1.2538	100.0		3	✓	CW	3.6	2.75	1.2538	100.0		H2
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Wall Conditioning	GD(Before Exp.): None , GD(After Exp.): None , Cryopump(During Exp.): on
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Remarks	(TC)LID(cancel, 10:30-13:00), Thomson, CXS, FIR, Crystal(Ti), Zeff, HIBP, PCI, BS, DBS, BES (IA)HIBP, FIDA, CXS  [Precautions for today's LHD experiments] (id:724) Impurity gas puff (id:728) Mag. Conf.: 3.55 m =< Rax < 3.6 m (id:748) ECH: off-axis injection (Combined)
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## Daily Schedule

Prepared by

N.Tamura

Date	Experimental Subject																																																						
2024/4/26(Fri)	Multi-wavelength spectroscopy of highly charged ions, Solid hydrogen pellet injection, Pellet fuelling efficiency, Edge impurity transport																																																						
Exp. No.	Experimental Session Group					Session Coordinator																																																	
1356	MAP					R.T. Ishikawa[2576] / K. Mukai[2240]																																																	
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																																								
		U P	[MAP]							D N																																													
Details and Experimental Conditions															Gas																																								
<p>[MAP](10:30 ~ 16:45) ECH, NBI  10:30-11:27 Multi-wavelength spectroscopy of highly charged ions (I. Murakami)  11:27-11:36 NBI calib. (3 shots)  11:36-13:30 Solid hydrogen pellet injection in the extended operational regime (H. Yamada(U. Tokyo), R. Sakamoto)  11:36-13:30 Pellet fuelling efficiency dependence on magnetic configuration (N. Panadero (Ciemat), R. Sakamoto) [piggy-backed]  13:30-13:45 [Change of Mag. Config.: 3.6 m, 2.75 T -&gt; 3.6 m, 2.0 T]  13:45-15:30 Solid hydrogen pellet injection in the extended operational regime (H. Yamada (U. Tokyo), R. Sakamoto)  15:30-15:45 [Change of Mag. Config.: 3.6 m, 2.0 T -&gt; 3.6 m, 1.375 T]  15:45-16:45 Edge impurity transport in impurity-seeded detachment (E. Wang (FZJ), Goto)  # [Change of Mag. Config.: 1.375 T -&gt; 1.0 T] will be done during 15:45-16:45</p> <p>NBI pattern #7: (#1, #2, #3, #4, #5) - (#1, #2, #3, #5) - (#1, #2, #3) - (#1, #2)</p> <p>Sequence:3min</p> <table border="1"> <thead> <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> </thead> <tbody> <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>2.0</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> <tr> <td>4</td> <td></td> <td>CW</td> <td>3.6</td> <td>1.0</td> <td>1.2538</td> <td>100.0</td> <td></td> </tr> </tbody> </table>															#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled	1		CW	3.6	2.75	1.2538	100.0		2		CW	3.6	2.0	1.2538	100.0		3		CW	3.6	1.375	1.2538	100.0		4		CW	3.6	1.0	1.2538	100.0		H2,Ne,Ar
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Remarks																																																							
(MAP)Impurity pellet, Fast TS, EUV/VUV & Div. VIS spectrometers (set for neon line emissions), Divertor LPs, Bolometers																																																							
【Precautions for today's LHD experiments】 (id:723) Impurity pellet/TESPEL (id:724) Impurity gas puff (id:752) NBI: Injection into the discharges with low fields																																																							