

23rd 15th week(01/31/22 - 02/04/22) schedule for LHD experiment

Weekly report :

Date	Day of the week	Bt direction	Wall condition (mor)	Schedule of the day				Gas	Experiment implementation system	Remark																									
				Morning (~ 12:15)	Afternoon (12:15 ~ 18:45)						Wall conditioning (night)																								
1/31	Mo.																																		
2/1	Tu.	CW		[instability](15:30 ~ 18:45)ECH, NBI Comparative experiments of Bootstrap current in the 1/new and plateau regime in LHD <table><thead><tr><th>#</th><th>Option</th><th>Polarity</th><th>Rax</th><th>Bax</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>1.375</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></tbody></table>				#	Option	Polarity	Rax	Bax	gamma	Bq	Subcooled	1		CW	3.6	1.375	1.2538	100.0		2		CW	3.6	2.75	1.2538	100.0		None	H2	【Responsible person】 M.Isobe / M. Goto 【ECH】 Yoshimura 【NBI】 Ikeda 【central ctrl./data proc.】 Yasui/Ohsuna, Ogawa 【radiation】 【EXP LAN】 Watanabe/Nakamura 【TGL】 K.Nagaoka/Y.Takemura 【SubTGL】 S.Kamio/N.Kenmochi	(instability)MSE, CTS, ECH(less than 2 seconds), NBI(more than 2 seconds)
#	Option	Polarity	Rax	Bax	gamma	Bq	Subcooled																												
1		CW	3.6	1.375	1.2538	100.0																													
2		CW	3.6	2.75	1.2538	100.0																													
2/2	We.	CCW						None		【Responsible person】 S.Masuzaki / Y.Takemura 【ECH】 Tsujimura 【NBI】 Kamio 【central ctrl./data proc.】 Yasui/Ohsuna, Ogawa 【radiation】 【EXP LAN】 Inoue/Watanabe 【TGL】 【SubTGL】																									
2/3	Th.	CCW						DivCryo		【Responsible person】 K.Tanaka / K.Nagaoka 【ECH】 Kenmochi 【NBI】 Nakano 【central ctrl./data proc.】 Yasui/Ohsuna, Ogawa 【radiation】 【EXP LAN】 Nakamura/Inoue 【TGL】 【SubTGL】																									
2/4	Fr.	CCW						DivCryo		【Responsible person】 K.Ida / N.Tamura 【ECH】 Yanai 【NBI】 Nuga 【central ctrl./data proc.】 Yasui/Ohsuna, Ogawa 【radiation】 【EXP LAN】 Inoue/Yamamoto 【TGL】 【SubTGL】																									

Daily Schedule

Prepared by

Date	Experimental Subject														
2022/1/31(Mon)															
Exp. No.	Topical Group					TGL					Sub-TGL				
1267															
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		U P										D N			
Details and Experimental Conditions														Gas	
Wall Conditioning	GD(Before Exp.): No , Cryopump(During Exp.): No														
Remarks															

Daily Schedule

Prepared by

Y.Takemura

Date	Experimental Subject														
2022/2/1(Tue)	Comparative experiments of Bootstrap current in the 1/new and plateau regime in LHD														
Exp. No.	Topical Group					TGL					Sub-TGL				
1267	instability					K.Nagaoka/Y.Takemura [2177/2167]					S.Kamio/N.Kenmochi [2194/2208]				
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		U P							[instability]			D N			
Details and Experimental Conditions														Gas	
[instability](15:30 ~ 18:45)ECH, NBI Using the long pulse discharge with ~ 3sec, and balanced NBI injection, the central density of $1 \times 10^{19} \text{ m}^{-3}$ to $3 \times 10^{19} \text{ m}^{-3}$ and temperature of $1 \sim 3 \text{ keV}$ could be obtained by NBI power scan for the plateau and $1/\nu$ regime. Then the plasma current is measured after Ohmic current decay by poloidal field coils. Experiment is done during hydrogen discharge. Maximum number of discharges : 70 Sequence:3min30s														H2	
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled								
1		CW	3.6	1.375	1.2538	100.0									
2		CW	3.6	2.75	1.2538	100.0									
Wall Conditioning GD(Before Exp.): No , Cryopump(During Exp.): No Remarks (instability)MSE, CTS, ECH(less than 2 seconds), NBI(more than 2 seconds)															

Daily Schedule

Prepared by

Date	Experimental Subject														
2022/2/2(Wed)															
Exp. No.	Topical Group					TGL					Sub-TGL				
1266															
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		U P										D N			
Details and Experimental Conditions														Gas	
Wall Conditioning	GD(Before Exp.): No , Cryopump(During Exp.): No														
Remarks															

Daily Schedule

Prepared by

Date	Experimental Subject														
2022/2/3(Thu)															
Exp. No.	Topical Group					TGL					Sub-TGL				
1267															
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		U P										D N			
Details and Experimental Conditions														Gas	
Wall Conditioning	GD(Before Exp.): No , Cryopump(During Exp.): Yes														
Remarks															

Daily Schedule

Prepared by

Date	Experimental Subject														
2022/2/4(Fri)															
Exp. No.	Topical Group					TGL					Sub-TGL				
1268															
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		U P										D N			
Details and Experimental Conditions														Gas	
Wall Conditioning	GD(Before Exp.): No , Cryopump(During Exp.): Yes														
Remarks															