

Daily Schedule

Prepared by

N.Tamura

Date	Experimental Subject																																																																																																																							
2022/10/25(Tue)	Fluctuations in LH transition, p-11B alpha particles measurement																																																																																																																							
Exp. No.	Topical Group					TGL					Sub-TGL																																																																																																													
1291	instability					K.Nagaoka/Y.Takemura [2177/2167]					R.Seki/N.Kenmochi [2201/2208]																																																																																																													
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 Coordinator: Y.Takemura](09:45 ~ 18:45) ECH, NBI, ICH 10:00-12:00 Fluctuation pattern change with the L/H transition (Ohdachi) 12:00-18:45 Measurements of p-11B alpha particles (R. Magee, Ohdachi) piggyback CDC dynamics and rotational transform/CDC dynamics and rotational transform (Thomsen, Ohdachi) piggyback Physical mechanism of edge instability with collapse (Takemura) Maximum number of discharges : 200 Sequence:3min <table><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>CCW</td><td>3.6</td><td>1.0</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>2</td><td></td><td>CCW</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>CCW</td><td>3.75</td><td>1.0</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>4</td><td>✓</td><td>CCW</td><td>3.75</td><td>0.75</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>5</td><td>✓</td><td>CCW</td><td>3.75</td><td>1.375</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>6</td><td>✓</td><td>CCW</td><td>3.75</td><td>2.64</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>7</td><td>✓</td><td>CCW</td><td>3.8</td><td>2.6053</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>8</td><td>✓</td><td>CCW</td><td>3.85</td><td>2.5714</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>9</td><td>✓</td><td>CCW</td><td>3.9</td><td>2.5385</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>10</td><td>✓</td><td>CCW</td><td>3.95</td><td>2.5063</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>11</td><td>✓</td><td>CCW</td><td>3.7</td><td>1.0</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>12</td><td>✓</td><td>CCW</td><td>3.675</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		CCW	3.6	1.0	1.2538	100.0		2		CCW	3.6	2.75	1.2538	100.0		3	✓	CCW	3.75	1.0	1.2538	100.0		4	✓	CCW	3.75	0.75	1.2538	100.0		5	✓	CCW	3.75	1.375	1.2538	100.0		6	✓	CCW	3.75	2.64	1.2538	100.0		7	✓	CCW	3.8	2.6053	1.2538	100.0		8	✓	CCW	3.85	2.5714	1.2538	100.0		9	✓	CCW	3.9	2.5385	1.2538	100.0		10	✓	CCW	3.95	2.5063	1.2538	100.0		11	✓	CCW	3.7	1.0	1.2538	100.0		12	✓	CCW	3.675	1.0	1.2538	100.0		H2,He,Ar		
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled																																																																																																																	
1		CCW	3.6	1.0	1.2538	100.0																																																																																																																		
2		CCW	3.6	2.75	1.2538	100.0																																																																																																																		
3	✓	CCW	3.75	1.0	1.2538	100.0																																																																																																																		
4	✓	CCW	3.75	0.75	1.2538	100.0																																																																																																																		
5	✓	CCW	3.75	1.375	1.2538	100.0																																																																																																																		
6	✓	CCW	3.75	2.64	1.2538	100.0																																																																																																																		
7	✓	CCW	3.8	2.6053	1.2538	100.0																																																																																																																		
8	✓	CCW	3.85	2.5714	1.2538	100.0																																																																																																																		
9	✓	CCW	3.9	2.5385	1.2538	100.0																																																																																																																		
10	✓	CCW	3.95	2.5063	1.2538	100.0																																																																																																																		
11	✓	CCW	3.7	1.0	1.2538	100.0																																																																																																																		
12	✓	CCW	3.675	1.0	1.2538	100.0																																																																																																																		
Wall Conditioning																																																																																																																								
GD(Before Exp.): H2 , GD(After Exp.): H2 , Cryopump(During Exp.): off																																																																																																																								
Remarks																																																																																																																								
(instability)CXS, open GV NBI#3, impurity gas, IPD, alpha particle detector, MSE																																																																																																																								
【Precautions for today's LHD experiments】 (id:677) Impurity gas puff (id:678) Impurity powder dropper (id:685) Mag. Conf.: Using LID coil (id:706) ICH: Antennae insertion for plasma heating by ICH : Subcool required (id:712) NBI: Injection into the discharges with low fields (id:717) Insertion of sample, etc: Insertion of the alpha particle detector (id:720) Probe: Edge plasma measurement using the fast-scanning Langmuir probes (id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece																																																																																																																								