

Daily Schedule

Prepared by

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Date	Experimental Subject																
2021/11/9(Tue)	Non-linear Coulomb collision effect, Knock-on tail formation, Rational surface on L-H transition Turbulence suppression with boron powder injection, Electromagnetic turbulence in high beta plasmas.																
Exp. No.	Topical Group						TGL					Sub-TGL					
1229	instability/turbulence						K.Nagaoka/Y.Takemura T.Tokuzawa [2177/2167, 2217]					S.Kamio/N.Kenmochi T.Kobayashi/T.Tsujimura/M.Nakata [2194/2208, 2231/2023/2276]					
Time Table	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
		U P	[instability]						[turbulence]			D N					
Details and Experimental Conditions														Gas			
[instability](09:00 ~ 16:00)ECH, NBI, ICH Experimental analysis of the non-linear Coulomb collision effect, Observation of knock-on tail formation using DD neutrons and 6LiD γ -rays, Impacts of rational surface on L-H transition in high beta plasma Maximum number of discharges : 170 Sequence:3min														H2,D2,He ,Ar			
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled										
1		CCW	3.55	2.7887	1.2538	100.0											
2		CCW	3.6	2.75	1.2538	100.0											
3		CCW	3.55	1.0	1.2538	100.0											
4		CCW	3.6	1.0	1.2538	100.0											
5		CCW	3.75	1.0	1.2538	100.0											
6		CCW	3.9	1.0	1.2538	100.0											
[turbulence](16:00 ~ 18:45)ECH, NBI, ICH Turbulence suppression with boron powder injection, Electromagnetic turbulence in high beta plasmas. Maximum number of discharges : 170 Sequence:3min														H2,D2,He ,Ar			
#	Option	Polarity	Rax(m)	Bax(T)	gamma	Bq(%)	Subcooled										
1		CCW	3.55	2.7887	1.2538	100.0											
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5		CCW	3.75	1.0	1.2538	100.0											
6		CCW	3.9	1.0	1.2538	100.0											
Wall Conditioning																	
GD(Before Exp.): D2 , Cryopump(During Exp.): Yes																	
Remarks																	
(instability)CNPA, DNPA, E B NPA, fast TS, FIDA, Impurity CXS (Li, B, C), Impurity pellet injection, ICH DC, Div cryopump (except for 2-I section) (turbulence)CNPA, DNPA, E B NPA, fast TS, FIDA, Impurity CXS (Li, B, C), Impurity pellet injection, ICH DC, Div cryopump (except for 2-I section) 【Precautions for today's LHD experiments】 (id:614) Impurity powder dropper (id:617) Mag. Conf.: Rax = 3.55 - 3.599 m (id:626) Mag. Conf.: Using LID coil (id:632) Li pellet injection by impurity pellet injector (id:655) ECH: Power injection for more than 10 s (id:657) ICH: Antennae insertion for plasma heating by ICH (id:663) Impurity: (Li, B4C, C) powder dropping (id:668) NB injection for low field discharges																	