

24th 3rd week(10/10/22 - 10/14/22) 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)									
10/10	M.	O.																
10/11	Tu.	.													D2 GD			
10/12	We.	C C W	[turbulence](09:45 ~ 11:00)ECH, NBI, ICH Isotope effect of high Ti plasma	[instability](11:00 ~ 16:30)ECH, NBI, ICH Detachment and Wave Physics	[multi-ion](16:30 ~ 18:45)ECH, NBI, ICH Research of ICRF antenna property by the power modulation in LHD	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	None	H2, D2, Ar	[Responsible person]M.Osakabe / M.Kobayashi [ECH]R.Yanai [NBI]Y.Kawamoto [central ctrl./data proc.]Ohsuna, Maeno / Ohsuna, Ogawa [radiation]H.Hayashi [EXP LAN]Inoué/Nakamura [TGL]T.Tokuzawa, K.Nagaoka/Y.Takemura, N.Tamura/M.Kobayashi [SubTGL]A.Shimizu/T.Kobayashi/M.Nishitara/M.Nakata, R.Seki/N.Kenmochi, H.Kasahara/G.Motojima	turbulence)CXS(GV open of NBI#3), PCI high D purity D/(D+H) >0.7 [instability)ECH:1st X-mode inj, 77GHz, 116GHz, 154GHz Off-axis. ECCD, ICH for wall conditioning ECH: 2s-77GHz + mod. 116GHz (id:691) Mag. Conf.: Subcool conditions (Combined) : Subcool required (id:696) ICH: IC wave injection into the vacuum (w/o plasma) (id:699) ECH: Fundamental X-mode injection from the high field side (id:703) ECH: EC wave injection from the Port 1.5Ω antenna (id:705) ECH: off-axis injection (Combined)	
10/13	Th.	C W	[multi-ion](09:45 ~ 11:00)ECH, NBI, ICH Research of ICRF antenna property by the power modulation in LHD	[instability](11:00 ~ 15:30)ECH, NBI, ICH Investigation of edge impurity transport in detached plasma, Mitigation of tungsten induced plasma termination	[multi-ion](15:30 ~ 18:45)ECH, NBI, ICH ICRF antenna property by the power modulation in LHD, Lithium powder injection for plasma modification in stellarator geometries	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	# Opt. Pol. Rax Bax gamma Bq SC	H2 GD	H2, Ar, Ne	[Responsible person]K.Ida / M. Goto [ECH]N.Kenmochi [NBI]K.Ikeda [central ctrl./data proc.]Ohsuna, Maeno / Ohsuna, Ogawa [radiation]T.Saze [EXP LAN]Inoué/Yamamoto [TGL]N.Tamura/M.Kobayashi, K.Nagaoka/Y.Takemura [SubTGL]H.Kasahara/G.Motojima, R.Seki/N.Kenmochi	(instability)FTS, TESPEL(W), CXS, PCI, reflectometry, NB3 gate valve(open), ECH boost injection (multi-ion)Li-IPD (id:676) Impurity pellet/TESPEL (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		
10/14	Fr.	C C W	[instability](09:00 ~ 18:45)ECH, NBI Detachment maintenance, prediction, and control; effect of tungsten divertor; anomaly detection in radiative collapse	[Opt. Pol. Rax Bax gamma Bq SC]	[Opt. Pol. Rax Bax gamma Bq SC]	[Opt. Pol. Rax Bax gamma Bq SC]	[Opt. Pol. Rax Bax gamma Bq SC]	[Opt. Pol. Rax Bax gamma Bq SC]	[Opt. Pol. Rax Bax gamma Bq SC]	[Opt. Pol. Rax Bax gamma Bq SC]	[Opt. Pol. Rax Bax gamma Bq SC]	[Opt. Pol. Rax Bax gamma Bq SC]	None	H2, N2, Ne, Ar	[Responsible person]M.Isobe / T.Tokuzawa [ECH]Y.Yoshimura [NBI]K.Tsumori / K.Nagaoka [central ctrl./data proc.]Ohsuna, Maeno / Ohsuna, Ogawa [radiation]T.Kobuchi [EXP LAN]Nakamura/Watanabe [TGL]K.Nagaoka/Y.Takemura [SubTGL]R.Seki/N.Kenmochi	instability) NBI#3 gate open for CXS measurement LID coil to cancel the natural island RMP 3300A, ECH boost injection for feed back control Diagnostics: CXS, PCI, Fast Photography(event trg. w/ bolometer), CHI gain control to avoid saturation, Fast Scanning Probe (id:677) Impurity gas puff (id:685) Mag. Conf.: Using LID coil (id:705) ECH: off-axis injection (Combined) (id:720) Probe: Edge plasma measurement using the fast-scanning Langmuir probes (id:722) Insertion of sample, etc:		

LHD project

Daily Schedule

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N.Tamura

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