LHD project

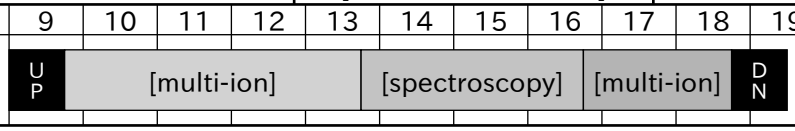
# Daily Schedule

| Prepared by |
|---|
| N.Tamura |

| Date | Experimental Subject |
|---|---|
| 2022/10/5(Wed) | ECH comissioning, Study for the real-time boronization using the impurity powder dropper<br>impurity transport using TESPEL injections<br>Poloidal and toroidal asymmetries of plasma radiation during impurity seeding |

| Exp. No. | Topical Group | TGL | Sub-TGL |
|---|---|---|---|
| 1280 | multi-ion/spectroscopy | N.Tamura/M.Kobayashi<br>M. Goto<br>[2337/2169, 2290] | H.Kasahara/G.Motojima<br>M.Yoshinuma/T.Oishi/T.Kawate<br>[2203/2142, 2172/2022/2256] |

Time Table




## Details and Experimental Conditions

**Gas:** H2,He,N2,Ne

[multi-ion Coordinator: M.Kobayashi](09:45 ～ 13:45) ECH, NBI, ICH
09:45-12:15 ECH Comissioning (R. Yanai)
12:15-13:45 The evaluation of the toroidal uniformity of the boron deposition on the divertor plates for the real-time boronization using the impurity powder dropper (M. Shoji)

Maximum number of discharges : 120
Sequence:3min

| # | Option | Polarity | Rax(m) | Bax(T) | gamma | Bq(%) | Subcooled |
|---|---|---|---|---|---|---|---|
| 1 | | CW | 3.6 | 2.75 | 1.2538 | 100.0 | |

**Gas:** H2,Ar

[spectroscopy Coordinator: T.Kawate](13:45 ～ 16:45) ECH, NBI
13:45-16:45 Impurity Transport for a Wide Range of Various Impurity Species Using TESPEL Injections (A. Langenberg, N. Tamura)

Maximum number of discharges : 70
Sequence:3min

| # | Option | Polarity | Rax(m) | Bax(T) | gamma | Bq(%) | Subcooled |
|---|---|---|---|---|---|---|---|
| 1 | | CW | 3.6 | 2.75 | 1.2538 | 100.0 | |

**Gas:** H2,He,N2,Ne

[multi-ion Coordinator: M.Kobayashi](16:45 ～ 18:45) ECH, NBI, ICH
16:45-18:45 Study of poloidal and toroidal asymmetries during impurity seeding in LHD (B. Peterson, K. Mukai)

Maximum number of discharges : 70
Sequence:3min

| # | Option | Polarity | Rax(m) | Bax(T) | gamma | Bq(%) | Subcooled |
|---|---|---|---|---|---|---|---|
| 1 | | CW | 3.75 | 2.64 | 1.2538 | 100.0 | |

**Wall Conditioning**

GD(Before Exp.): None , GD(After Exp.): None , Cryopump(During Exp.): off

**Remarks**

(multi-ion)Manupilator(4.5L, 10.5L), IPD(B), BES, CXS

(spectroscopy)TESPEL injection, open NBI#3 gate
(multi-ion)RMP(6O)

【Precautions for today's LHD experiments】
(id:676) Impurity pellet/TESPEL
(id:677) Impurity gas puff
(id:678) Impurity powder dropper
(id:685) Mag. Conf.: Using LID coil
(id:693) ECH: Commissioning (alignment, profile check)
(id:696) ICH: IC wave injection into the vaccum (w/o plasma)
(id:706) ICH: Antennae insertion for plasma heating by ICH
(id:721) Insertion of sample, etc: Exposure of a material sample to divertor plasma by the manipulators
(id:722) Insertion of sample, etc: Insertion of water-cooled tungsten divertor test piece