

## Daily Schedule

Prepared by

N.Tamura

| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Experimental Subject                                                                                                                                    |          |        |        |        |       |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------|--------|-------|-----------------------------------------------------------------------|----|----|--------|----|----|----|-----|--------|----------|--------|--------|-------|-------|-----------|---|--|----|-----|--------|--------|-------|--|---|--|----|------|--------|--------|-------|--|-------|---|----|-----|------|--------|-------|--|----|--|
| 2024/4/25(Thu)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Electron-scale turbulence and its influence to transport, Effect of magnetic field geometry on zonal flow<br>Fast ion measurements in quiescent plasmas |          |        |        |        |       |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| Exp. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Experimental Session Group                                                                                                                              |          |        |        |        |       | Session Coordinator                                                   |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| 1355                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TC/IA                                                                                                                                                   |          |        |        |        |       | M.Yoshinuma[2172] / H.Nakano[2209]<br>M.Goto[2290] / N.Kenmochi[2208] |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| Time Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8                                                                                                                                                       | 9        | 10     | 11     | 12     | 13    | 14                                                                    | 15 | 16 | 17     | 18 | 19 | 20 | 21  | 22     |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                         | U<br>P   | [TC]   |        |        |       | [IA]                                                                  |    |    | D<br>N |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| Details and Experimental Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                         |          |        |        |        |       |                                                                       |    |    |        |    |    |    | Gas |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| [TC](10:30 ~ 14:15) ECH, NBI<br>10:30-13:00 Investigation of electron-scale turbulence and its influence on transport (T. Nasu)<br>13:00-14:15 Verification of the effect of magnetic field geometry on zonal flow in 3D confined configuration (S. Satake)<br><br>Sequence:3min<br><table><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><tr><td>1</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><tr><td>2</td><td></td><td>CW</td><td>3.7</td><td>2.6757</td><td>1.2538</td><td>100.0</td><td></td></tr></table>                                                                                                                                            |                                                                                                                                                         |          |        |        |        |       |                                                                       |    |    |        |    |    |    | #   | Option | Polarity | Rax(m) | Bax(T) | gamma | Bq(%) | Subcooled | 1 |  | CW | 3.6 | 2.75   | 1.2538 | 100.0 |  | 2 |  | CW | 3.7  | 2.6757 | 1.2538 | 100.0 |  | H2,Ar |   |    |     |      |        |       |  |    |  |
| #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Option                                                                                                                                                  | Polarity | Rax(m) | Bax(T) | gamma  | Bq(%) | Subcooled                                                             |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                         | CW       | 3.6    | 2.75   | 1.2538 | 100.0 |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                         | CW       | 3.7    | 2.6757 | 1.2538 | 100.0 |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| [IA](14:15 ~ 16:45) ECH, NBI<br>14:15-16:45 Diagnosis of fast ions in quiescent plasmas for comparison to predicted neoclassical confinement (W. Hayashi (UCI), M. Osakabe)<br># [Change of Mag. Config.: 3.7m, 2.6757T -> 3.6m, 2.75T(Option) -> 3.55m, 2.7887T] will be during 14:15-16:45<br><br>Sequence:3min<br><table><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><tr><td>1</td><td></td><td>CW</td><td>3.7</td><td>2.6757</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>2</td><td></td><td>CW</td><td>3.55</td><td>2.7887</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</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></table> |                                                                                                                                                         |          |        |        |        |       |                                                                       |    |    |        |    |    |    | #   | Option | Polarity | Rax(m) | Bax(T) | gamma | Bq(%) | Subcooled | 1 |  | CW | 3.7 | 2.6757 | 1.2538 | 100.0 |  | 2 |  | CW | 3.55 | 2.7887 | 1.2538 | 100.0 |  | 3     | ✓ | CW | 3.6 | 2.75 | 1.2538 | 100.0 |  | H2 |  |
| #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Option                                                                                                                                                  | Polarity | Rax(m) | Bax(T) | gamma  | Bq(%) | Subcooled                                                             |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                         | CW       | 3.7    | 2.6757 | 1.2538 | 100.0 |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                         | CW       | 3.55   | 2.7887 | 1.2538 | 100.0 |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ✓                                                                                                                                                       | CW       | 3.6    | 2.75   | 1.2538 | 100.0 |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| Wall Conditioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                         |          |        |        |        |       |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| GD(Before Exp.): None , GD(After Exp.): None , Cryopump(During Exp.): on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                         |          |        |        |        |       |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                         |          |        |        |        |       |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |
| (TC)LID(cancel, 10:30-13:00), Thomson, CXS, FIR, Crystal(Ti), Zeff, HIBP, PCI, BS, DBS, BES<br><br>(IA)HIBP, FIDA, CXS<br><br>[Precautions for today's LHD experiments]<br>(id:724) Impurity gas puff<br>(id:728) Mag. Conf.: 3.55 m =< Rax < 3.6 m<br>(id:748) ECH: off-axis injection (Combined)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                         |          |        |        |        |       |                                                                       |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |    |     |        |        |       |  |   |  |    |      |        |        |       |  |       |   |    |     |      |        |       |  |    |  |