

Daily Schedule

Prepared by

N.Tamura

| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Experimental Subject                                                                                                                                                                                                                            |          |        |        |        |       |                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------|--------|-------|--------------------------------|----|----|--------|----|----|----|-----|--------|----------|--------|--------|-------|-------|-----------|---|--|-----|-----|------|--------|-------|--|---|--|-----|------|------|--------|-------|--|-------|--|
| 2024/4/17(Wed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Observation of gamma-ray emission from Li-H reaction for fast ion diagnostics/Understanding the dependence of fast ion distribution on various magnetic field configurations using the newly installed Imaging Neutral Particle Analyzer (INPA) |          |        |        |        |       |                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| Exp. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Experimental Session Group                                                                                                                                                                                                                      |          |        |        |        |       | Session Coordinator            |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| 1350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IA                                                                                                                                                                                                                                              |          |        |        |        |       | K.Ogawa[2229] / T.Kawate[2256] |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| Time Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8                                                                                                                                                                                                                                               | 9        | 10     | 11     | 12     | 13    | 14                             | 15 | 16 | 17     | 18 | 19 | 20 | 21  | 22     |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                 | U<br>P   | [IA]   |        |        |       |                                |    |    | D<br>N |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| Details and Experimental Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                 |          |        |        |        |       |                                |    |    |        |    |    |    | Gas |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| <p>[IA](10:30 ~ 16:45) ECH, NBI, ICH<br/>10:30-14:15 Observation of gamma-ray emission from Li-H reaction for fast ion diagnostics (H. Matsuura (Kyushu Univ.), K. Ogawa)<br/>14:15-15:15 Understanding the dependence of fast ion distribution on various magnetic field configurations using the newly installed Imaging Neutral Particle Analyzer (INPA) (S. Sangaroon (Mahasarakham Univ.), K. Ogawa)<br/>15:15-15:25 NBI Calib. (3 shots)<br/>15:15-15:45 [Change of Mag. Config.: 3.60 m, 2.75 T -&gt; 3.75m, 2.64 T]<br/>15:45-16:45 Understanding the dependence of fast ion distribution on various magnetic field configurations using the newly installed Imaging Neutral Particle Analyzer (INPA) (S. Sangaroon (Mahasarakham Univ.), K. Ogawa)</p> <p>Sequence:3min</p> <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>2.75</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>2</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></tbody></table> |                                                                                                                                                                                                                                                 |          |        |        |        |       |                                |    |    |        |    |    |    | #   | Option | Polarity | Rax(m) | Bax(T) | gamma | Bq(%) | Subcooled | 1 |  | CCW | 3.6 | 2.75 | 1.2538 | 100.0 |  | 2 |  | CCW | 3.75 | 2.64 | 1.2538 | 100.0 |  | H2,He |  |
| #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Option                                                                                                                                                                                                                                          | Polarity | Rax(m) | Bax(T) | gamma  | Bq(%) | Subcooled                      |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                 | CCW      | 3.6    | 2.75   | 1.2538 | 100.0 |                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                 | CCW      | 3.75   | 2.64   | 1.2538 | 100.0 |                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| Wall Conditioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                 |          |        |        |        |       |                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| GD(Before Exp.): None , GD(After Exp.): H2 , Cryopump(During Exp.): off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                 |          |        |        |        |       |                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                 |          |        |        |        |       |                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| (IA)Impurity Pellet(LiF), CXS(Li profile, Ion temperature profile), DNPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                 |          |        |        |        |       |                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |
| [Precautions for today's LHD experiments]<br>(id:723) Impurity pellet/TESPEL<br>(id:749) ICH: Antennae insertion for plasma heating by ICH : Subcool required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                 |          |        |        |        |       |                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |     |      |        |       |  |   |  |     |      |      |        |       |  |       |  |