

## Daily Schedule

Prepared by

Y. Takemura  
M. Goto

| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Experimental Subject                                                                                                                                     |          |        |        |        |       |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------|--------|-------|--------------------------------------------------------------------|----|----|--------|----|----|----|-----|--------|----------|--------|--------|-------|-------|-----------|---|--|-----|------|------|--------|-------|--|---|--|-----|------|--------|--------|-------|--|---|--|-----|------|------|--------|-------|--|----------|---|-----|------|-----|--------|-------|--|----|--|
| 2024/4/10(Wed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Characteristics of the radial mode structure of resistive interchange mode<br>Spectroscopic measurement of detached plasma and boron ion intensity lines |          |        |        |        |       |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| Exp. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Experimental Session Group                                                                                                                               |          |        |        |        |       | Session Coordinator                                                |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| 1346                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TC/MAP                                                                                                                                                   |          |        |        |        |       | K.Mukai[2240] / R.Yanai[2163]<br>M.Nishiura[2184] / H.Nakano[2209] |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| Time Table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8                                                                                                                                                        | 9        | 10     | 11     | 12     | 13    | 14                                                                 | 15 | 16 | 17     | 18 | 19 | 20 | 21  | 22     |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                          | U<br>P   | [TC]   |        |        | [MAP] |                                                                    |    |    | D<br>N |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| Details and Experimental Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                          |          |        |        |        |       |                                                                    |    |    |        |    |    |    | Gas |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| <div>[TC](10:30 ~ 12:30) ECH, NBI<br/>10:30-12:30 Characteristics of the radial mode structure of resistive interchange mode and its parameter dependence (J. Valera(UC3M), Y. Takemura)<br/># [Change of Mag. Config.: 0.75T -&gt; 1.0T(option) -&gt; 1.375T -&gt; 2.64T] will done between 10:30 and 12:30.<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>CCW</td><td>3.75</td><td>0.75</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>1.375</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</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><tr><td>4</td><td>✓</td><td>CCW</td><td>3.75</td><td>1.0</td><td>1.2538</td><td>100.0</td><td></td></tr></table></div> |                                                                                                                                                          |          |        |        |        |       |                                                                    |    |    |        |    |    |    | #   | Option | Polarity | Rax(m) | Bax(T) | gamma | Bq(%) | Subcooled | 1 |  | CCW | 3.75 | 0.75 | 1.2538 | 100.0 |  | 2 |  | CCW | 3.75 | 1.375  | 1.2538 | 100.0 |  | 3 |  | CCW | 3.75 | 2.64 | 1.2538 | 100.0 |  | 4        | ✓ | CCW | 3.75 | 1.0 | 1.2538 | 100.0 |  | H2 |  |
| #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Option                                                                                                                                                   | Polarity | Rax(m) | Bax(T) | gamma  | Bq(%) | Subcooled                                                          |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                          | CCW      | 3.75   | 0.75   | 1.2538 | 100.0 |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                          | CCW      | 3.75   | 1.375  | 1.2538 | 100.0 |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                          | CCW      | 3.75   | 2.64   | 1.2538 | 100.0 |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                                                                                                                                                        | CCW      | 3.75   | 1.0    | 1.2538 | 100.0 |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| <div>[MAP](12:30 ~ 16:45) ECH, NBI<br/>12:30-15:15 Spectroscopic analysis of detached plasma (M. Goto)<br/># [Change of Mag. Config.: 3.75m -&gt; 3.9m] will done between 12:30 and 15:15.<br/>15:15-15:45 [Change of Mag. Config.: 3.9m -&gt; 3.6m]<br/>15:45-16:45 Boron ion intensity lines for measurements of the electron temperature and density (N. Goto)<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>CCW</td><td>3.75</td><td>2.64</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>2</td><td></td><td>CCW</td><td>3.9</td><td>2.5385</td><td>1.2538</td><td>100.0</td><td></td></tr><tr><td>3</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></table></div>                                                      |                                                                                                                                                          |          |        |        |        |       |                                                                    |    |    |        |    |    |    | #   | Option | Polarity | Rax(m) | Bax(T) | gamma | Bq(%) | Subcooled | 1 |  | CCW | 3.75 | 2.64 | 1.2538 | 100.0 |  | 2 |  | CCW | 3.9  | 2.5385 | 1.2538 | 100.0 |  | 3 |  | CCW | 3.6  | 2.75 | 1.2538 | 100.0 |  | H2,Ne,Ar |   |     |      |     |        |       |  |    |  |
| #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Option                                                                                                                                                   | Polarity | Rax(m) | Bax(T) | gamma  | Bq(%) | Subcooled                                                          |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                          | CCW      | 3.75   | 2.64   | 1.2538 | 100.0 |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                          | CCW      | 3.9    | 2.5385 | 1.2538 | 100.0 |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                          | CCW      | 3.6    | 2.75   | 1.2538 | 100.0 |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| Wall Conditioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                          |          |        |        |        |       |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| GD(Before Exp.): H2 , GD(After Exp.): He , Cryopump(During Exp.): off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                          |          |        |        |        |       |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                          |          |        |        |        |       |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| (TC)FTS, ECE-Imaging at 1.0T, CECE, CXS, LID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                          |          |        |        |        |       |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| (MAP)CXS, IPD, LID (12:30-15:15), Ne puff, impurity pellet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                          |          |        |        |        |       |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |
| 【Precautions for today's LHD experiments】<br>(id:723) Impurity pellet/TESPEL<br>(id:724) Impurity gas puff<br>(id:731) Mag. Conf.: Using LID coil<br>(id:752) NBI: Injection into the discharges with low fields<br>(id:762) Impurity powder dropper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                          |          |        |        |        |       |                                                                    |    |    |        |    |    |    |     |        |          |        |        |       |       |           |   |  |     |      |      |        |       |  |   |  |     |      |        |        |       |  |   |  |     |      |      |        |       |  |          |   |     |      |     |        |       |  |    |  |