



# Cloudy Workshop 2024

## Monday, August 5, 2024

**Lectures - 1236 (9:30 AM - 10:30 AM)**

-Conveners: Yuto Mochizuki; Akio Inoue

| time    | [id] title                     | presenter     |
|---------|--------------------------------|---------------|
| 9:30 AM | [1] Introduction to Cloudy (1) | FERLAND, Gary |

**Lectures: Lectures - 1236 (1:00 PM - 5:00 PM)**

-Conveners: Mai Yamashita; Tohru Nagao

| time    | [id] title                                                          | presenter     |
|---------|---------------------------------------------------------------------|---------------|
| 1:00 PM | [2] Introduction to Cloudy (2)                                      | FERLAND, Gary |
| 2:00 PM | [6] Starting Cloudy                                                 | FERLAND, Gary |
| 3:30 PM | Break                                                               |               |
| 4:00 PM | [4] The optical line thermostat effect and FIR lines to the rescue! | FERLAND, Gary |

# Tuesday, August 6, 2024

**Lectures - 1236 (9:00 AM - 12:00 PM)**

| -Conveners: Daiki Miura; Kimihiko Nakajima |                                              |                       |
|--------------------------------------------|----------------------------------------------|-----------------------|
| time                                       | [id] title                                   | presenter             |
| 9:00 AM                                    | [7] 1 keV feature in X-ray binaries (PART I) | CHAKRABORTY, Priyanka |
| 10:00 AM                                   | [10] Solving Mysteries using Cloudy          | DEHGHANIAN, Maryam    |
| 11:00 AM                                   | [9] pyCloudy                                 | MORISSET, Christophe  |

**Lectures - 1236 (1:00 PM - 2:30 PM)**

| -Conveners: Komachi Maehara; Kimihiko Nakajima |                         |                  |
|------------------------------------------------|-------------------------|------------------|
| time                                           | [id] title              | presenter        |
| 1:00 PM                                        | [5] Stellar Atmospheres | VAN HOOFF, Peter |
| 1:45 PM                                        | [8] Parallel Cloudy     | VAN HOOFF, Peter |

# Wednesday, August 7, 2024

**Lectures - 1236 (9:00 AM - 12:00 PM)**

-Conveners: Nagi Atsuchi; Masaaki Otsuka

| time     | [id] title                                     | presenter             |
|----------|------------------------------------------------|-----------------------|
| 9:00 AM  | [11] 1 keV feature in X-ray binaries (PART II) | CHAKRABORTY, Priyanka |
| 10:00 AM | [12] High-resolution X-rays with Cloudy        | GUNASEKERA, Chamani   |
| 11:00 AM | [13] Grains Physics                            | VAN HOOF, Peter       |

**Lectures: Lectures - 1236 (1:00 PM - 2:00 PM)**

-Conveners: Yuto Mochizuki; Masaaki Otsuka

| time    | [id] title                                          | presenter       |
|---------|-----------------------------------------------------|-----------------|
| 1:00 PM | [14] Dust and Molecules in PNe (Herschel/ALMA/JWST) | VAN HOOF, Peter |

# Thursday, August 8, 2024

**Lectures - 1236 (9:00 AM - 11:00 AM)**

-Conveners: Komachi Maehara; Yoichi Tamura

| time     | [id] title                                                                      | presenter                                    |
|----------|---------------------------------------------------------------------------------|----------------------------------------------|
| 9:00 AM  | [16] BPT diagnostic diagrams and X-ray spectroscopy in the microcalorimeter era | CHAKRABORTY, Priyanka<br>GUNASEKERA, Chamani |
| 10:30 AM | [31] Dust and Molecules in PNe (Herschel/ALMA/JWST)                             | VAN HOOF, Peter                              |

**Lectures - 1236 (1:30 PM - 2:30 PM)**

-Conveners: Mai Yamashita; Shunsuke Baba

| time    | [id] title                                          | presenter                    |
|---------|-----------------------------------------------------|------------------------------|
| 1:30 PM | [15] Atomic, molecular, and grain emission and JWST | FERLAND, Gary<br>SHAW, Gargi |

# Friday, August 9, 2024

**Lectures: Lectures - 1236 (9:00 AM - 10:00 AM)**

-Conveners: Daiki Miura; Atsushi Tanimoto

| time    | [id] title                            | presenter             |
|---------|---------------------------------------|-----------------------|
| 9:00 AM | [17] Line Ratio Diagnostics for XRISM | CHAKRABORTY, Priyanka |