

Syllabus Reference

Course title	Observation Experiment I A		
Term	通年(前期開始) Whole Year		
Credit(s)	2		
The main day		The main period	
School/Program	School of Physical Sciences		
Department/Program	Department of Astronomical Science		
Category	Common		
Lecturers			

Instructor

Full name

* AOKI WAKO

Outline	The course provides students with an opportunity to carry out an observation at the Subaru Telescope and learn how to process the acquired data.
Goal	The course invites students to an observation using the Subaru telescope to provide them with an opportunity to learn elements essential to astronomical observations such as skills to plan and prepare for an observation, how to operate the telescope and instrument to execute an observation, and how to process data. The observing target will be determined based on discussions among the participants. If the observation is successful, a careful data analysis will be performed in Mitaka after the observing run. Scientifically interesting results may be presented at Astronomical Society of Japan meeting and summarized in a paper for submission to a refereed journal. If the weather does not cooperate, archival data will be used for data processing training.
Grading system	
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Grading policy	It is mandatory to participate in the observation at the Subaru Telescope in Hawaii. Attendance to preparatory meetings and lectures in Mitaka, contribution to the observation, and the quality of the term paper will be taken into account.
Lecture Plan	<p>June–August: observation planning, sharing target information with participants (2–3 meetings in Mitaka). The observation at the Subaru telescope will be scheduled between August and January.</p> <p>Its exact date will be determined after June once Subaru science schedule has been fixed.</p> <p>– Experiment:</p> <p>Day1 Departure for Hilo, Hawaii, USA. Orientation at the Hilo base facility (stay at Hilo).</p> <p>Day2 Departure for Mauna Kea. Summit tour (stay at Hale Pohaku: mid-level facility).</p> <p>Day3 Observation (either first or latter half night, stay at Hale Pohaku)</p> <p>Day4 Move to Hilo. Data analysis at the Hilo base facility (stay at Hilo).</p> <p>Day5 Data analysis at Hilo base facility (stay at Hilo).</p> <p>Day6 Departure for Narita/Haneda</p> <p>Day7 Adjourn</p> <p>The exact schedule is subject to change due to the telescope schedule. The plan may be also significantly changed depending on Covid-19 situation.</p>
Location	Preparation: NAOJ Lecture Room / Observation: Subaru Telescope
Language	Japanese or English
Textbooks and references	see the web page of the Subaru Telescope
Related URL	http://www.naoj.org

Explanatory note on above URL	Detailed information on the Subaru Telescope
Others	Pre-requisites: 1st-year students of the 5-year course or 3rd-year students of the 3-year course can participate in this program. If you have any health concerns, especially high-altitude diseases, please contact the Graduate Student Affairs Section.
Keyword	Optical/Infrared Astronomy

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