

<b>Course number</b>	U-LAS70 10002 SE50					
<b>Course title (and course title in English)</b>	ILAS Seminar-E2 :Frontiers in Theoretical Physics I ( 理論物理学最前線 I ) ILAS Seminar-E2 :Frontiers in Theoretical Physics I		<b>Instructor's name, job title, and department of affiliation</b>	Yukawa Institute for Theoretical Physics Associate Professor, Antonio De Felice		
<b>Group</b>	Seminars in Liberal Arts and Sciences		<b>Number of credits</b>	2	<b>Number of weekly time blocks</b>	1
<b>Class style</b>	seminar (Face-to-face course)	<b>Year/semesters</b>	2025 • First semester		<b>Quota (Freshman)</b>	8 (8)
<b>Target year</b>	Mainly 1st year students	<b>Eligible students</b>	For all majors		<b>Days and periods</b>	Wed.5
<b>Classroom</b>	305, 3F Yukawa Institute for Theoretical Physics (North Campus)				<b>Language of instruction</b>	English
<b>Keyword</b>	Theoretical Physics / 理論物理学 / modern physics / 現代物理学					
<b>[Overview and purpose of the course]</b>						
This will be in the form of a small class (around 7 students). The purpose is to learning interactively various up-to-date topics in theoretical physics. Topics will be taken from journals like Physics Today, Physics World, Nature etc.. The topics taken in this course are different from those in the course "Frontiers in Theoretical Physics II".						
<b>[Course objectives]</b>						
The students will be able to read an article from some journal and enucleate the main message from it.						
The student will closely interact with professor and other students, so that ideas/comments can be exchanged.						
<b>[Course schedule and contents)]</b>						
1. Each student would read in turn a paper and report her/his impressions to the other people. 2. The paper will be freely chosen consistently with field of theoretical physics. 3. In case the paper requires more work, analysis, the same paper can be discussed in groups. 4. As for the paper, the student must be able to get the key-message and show to the others why the paper might (or might not) be of importance in theoretical physics. 5. Share comments, and toss out possible new ideas to expand the idea of the original paper.						
<b>[Course requirements]</b>						
None						
<b>[Evaluation methods and policy]</b>						
Discussion in class.						
<b>[Textbooks]</b>						
Instructed during class						
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**[References, etc.]**

( References, etc. )

Introduced during class

**[Study outside of class (preparation and review)]**

The students will be given a paper to read a week before class, and, in turn, they will present and discuss it with other students.

**[Other information (office hours, etc.)]**

**[Essential courses]**