

**Scuola Galileiana di Studi Superiori**

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PIANO NAZIONALE DI RIPRESA E RESILIENZA (PNRR)

Missione 4: "Istruzione e ricerca"
Componente 1: "Potenziamento dell'offerta
dei servizi di istruzione: dagli asili nido alle università"
Investimento 3.4, "Didattica e competenze
universitarie avanzate" – sub-investimento
"Rafforzamento delle scuole universitarie superiori"

SEASONAL SCHOOL
"Theoretical Physics of the Fundamental Interactions 2026"
a.a. 2025/26

(This is a courtesy translation)

Art. 1
Seasonal School

Within the framework of the MERITA project, whose objectives include 'the development of innovative and interdisciplinary undergraduate training courses ("seasonal schools") [...] delivered in residential mode at one of the network's centres, in line with MERITA's research themes and characterised by strong integration and synergies aimed at fostering transversal competences', the Scuola Galileiana di Studi Superiori (SGSS) of the University of Padua the Scuola Galileiana di Studi Superiori (SGSS) of the University of Padua, in collaboration with the Scuola Normale Superiore (SNS), is organising a seasonal school entitled "Theoretical Physics of the Fundamental Interactions 2026". The School will be held in person from 25 to 29 May 2026 in Padua, for a total of 28 teaching hours, corresponding to 4 ECTS credits.

The official language of the School is English.

The Seasonal School will admit a maximum of 50 students.

Art. 2
Educational Objectives

The primary educational objectives of the Thematic School are to provide an introduction to advanced topics in the theoretical physics of fundamental interactions, which are not normally covered within Master's degree curricula.

By the end of the course, students will be familiar with several central themes in current theoretical research on fundamental interactions, ranging from the phenomenology of elementary particles to astroparticle physics and theoretical cosmology, as well as more formal topics such as the correspondence between gauge theories and gravitational theories.

Art. 3
Admission Requirements and Eligibility Criteria



The course is open to students enrolled at Italian universities who meet the following requirements:

- Be enrolled in a Master's degree programme in Physics (Class LM-17) or in a PhD programme in Physics;
- Be up to date with all required examinations in their respective degree programmes, with a minimum average mark of 27/30;
- Possess a self-certified knowledge of the English language at a minimum level of B2 (CEFR).

Applicants must meet the above requirements by the application deadline.

Should the number of applications exceed the available places, applications will be assessed according to the following criteria:

- Evaluation of the applicant's academic record and CV (Bachelor's and/or Master's degree mark);
- Grade point average (Bachelor's and Master's levels);
- Consistency and excellence of the academic career;
- Documented periods of study abroad;
- Publications.

Applications will be assessed by the Organising Committee of the course, namely Professors:

- Davide Cassani (National Institute for Nuclear Physics - SGSS)
- Gianguido Dall'Agata (University of Padua - SGSS)
- Francesco D'Eramo (University of Padua - SGSS)
- Guilherme Pimentel (SNS)
- Enrico Trincherini (SNS)

Art. 4 Organisation of the Course

The course consists of five full days of lectures, held both in the morning and in the afternoon, delivered by the following professors:

- Enrico Pajer (University of Cambridge, UK)
- Stefano Profumo (University of California-Santa Cruz)
- Pedro Vieira (Perimeter Institute for Theoretical Physics and ICTP South American Institute for Fundamental Research)
- Alberto Zaffaroni (Università di Milano-Bicocca)

Art. 5 Application for Admission

Candidates wishing to apply for admission to the Seasonal School must submit their application exclusively online no later than **10 April 2026**, using the dedicated service available at the following website: <https://scuolagalileiana.unipd.it/en/education/seasonal-schools/>

The following documentation must be attached to the application; failure to provide any of the required documents will result in exclusion from the selection procedure:

- A valid identity document;
- Self-certification of English language proficiency at a minimum level of B2 (CEFR);
- Self-certification of enrolment in a Master's degree or PhD programme as specified in Article 3;
- Self-certification of examinations passed, including dates and marks, or an official transcript of records;
- Self-certification of the weighted average mark obtained in the examinations passed;
- Self-certification of any additional qualifications (documented periods of study abroad; any publications);
- Where applicable, self-certification of enrolment as a student of a University School of Excellence or of a Higher Education Institution with special status.

Applications submitted after the deadline or by means other than those specified in this Article, regardless of the reason, will not be considered.

False statements and declarations are punishable under the Italian Criminal Code and the relevant special laws (Articles 75 and 76 of Presidential Decree no. 445/2000).

The SGSS reserves the right, at any stage of the procedure, including after the start of the course, to verify the truthfulness of the declarations made and the documents submitted, and to request the production of original documents. In the event of false declarations, the SGSS may, by reasoned decree of the Director, exclude the candidate from the selection procedure, without prejudice to any criminal liability arising therefrom.

Art. 6

Coverage of Participation Costs

All expenses relating to selected students from the Scuola Normale Superiore (SNS) and the Scuola Galileiana di Studi Superiori (SGSS) will be covered by their respective institutions.

Other selected participants will be entitled to reimbursement of travel expenses (second-class train tickets purchased through an affiliated travel agency), up to a maximum amount of €200. They will also be provided with board and accommodation, in accordance with the arrangements defined by the organisers, for the period from 24 to 29 May 2026

Art. 7

Certificate and Academic Credits

Upon completion of the course, 4 ECTS credits will be awarded to participants who attend at least 80% of the scheduled lectures. The award of credits is subject to compliance with the attendance requirements and to passing the planned assessment tests.

Art. 8
Person Responsible for the Selection Procedure
and the Processing of Personal Data

Pursuant to Article 4 of Law no. 241 of 7 August 1990 (Nuove norme in materia di procedimento amministrativo e di diritto di accesso ai documenti amministrativi), as subsequently amended, the Director of the Scuola Galileiana, Professor Gianguido Dall'Agata, is appointed as the person responsible for the procedure referred to in this Call. Address: Via VIII Febbraio 1848, 2 – 35122 Padua – Tel.: +39 049 8278938 – Email: scuola.galileiana@unipd.it
Information regarding the applicable data protection regulations is available on the “Privacy Policy” page of the Scuola Galileiana website.

Professor Gianguido Dall'Agata
Direttore della Scuola Galileiana di Studi Superiori

