


Programas intensivos combinados (BIP) organizados en la Universitat de Valencia 2023-24
ANEXO II: Declaration of will
Details of the BIP provided by Receiving Institution (University of Valencia)

BIP name	Physics Erasmus Summer School: Unveiling the secrets of matter and light
Receiving Institution & Erasmus code	Universitat de València - E VALENCIO1
Responsible person for the BIP at UV	José María Martí Puig
ECTS credits to be recognized	3
Physical mobility dates (5-30 days)	5 days
City & country of the physical mobility	Valencia (Spain)
Virtual mobility dates	2-6 and 9-20 September 2024
Timing of the virtual period (before/after/during the physical mobility)	During and after the physical mobility
Description of the virtual component	<p>The School is addressed to undergraduate students in Physics and other STEM degrees. In this edition, the School's programme will include lectures in the fields of Óptics and Sciences of Vision, and Atomic and Nuclear Physics, and other multidisciplinary topics. There will also be time reserved for the participants to present their own contributions. Some of the lectures will be delivered on-line during the physical mobility. Additionally, BIP participants will be divided into small working teams to deepen the contents of some of the lectures. The teams will be made up of participants from different universities and will have to prepare their compositions and/or presentations by working remotely once the physical mobility component is over.</p>

Details of the sending Institution

Sending institution	Università degli Studi di Palermo
Erasmus code	I PALERM001
Academic responsible at the sending institution (name and family name)	Rosario Mantegna
e-Mail address of the academic responsible	rosario.mantegna@unipa.it
Administrative responsible at the sending institution	Antonio Prestianni
e-Mail address of the administrative responsible	antonio.prestianni@unipa.it

Signatures

Sending Institution	Academic responsible's name and family name Rosario Mantegna	Date and signature:
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Cofinanciado por el
programa Erasmus+
de la Unión Europea

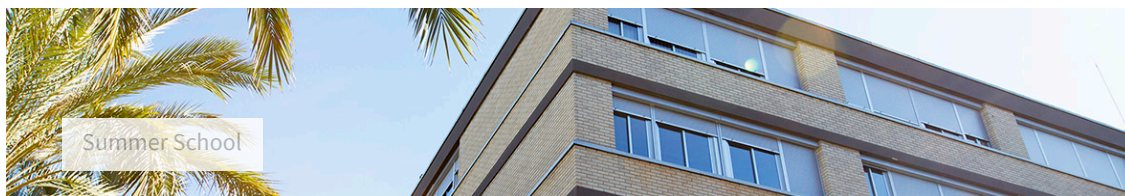
VNIVERSITAT
ID VALÈNCIA

Vicerektorat d'Internacionalització
i Multilingüisme

Receiving Institution	Organiser's name and family name José María Martí Puig	Date and signature:
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SUBMENU

First circular and registration form

Presentation | **First circular and registration form**

The Physics Erasmus Summer School (E3F)

UNVEILING THE SECRETS OF MATTER AND LIGHT

will be held from 9 to 13 September 2024 at the Faculty of Physics of the Universitat de València.

The School is aimed at undergraduate students of Physics and other STEM degrees. The School will offer lectures, round tables, and various leisure and educational activities in an inclusive and participatory environment. In this edition, the School's programme will include invited lectures in the fields of Atomic, Molecular and Nuclear Physics, and Optics, Optometry and Vision science as well as contributions on other topics in Physics or related to it. There will also be time for participants to present their own contributions. Presentations will be given in English.

Besides its scientific content, the School offers a unique opportunity to know the Faculty of Physics of the University of Valencia as a potential Erasmus destination, to discover the city of Valencia, and to establish contacts with Physics students from various European universities.

The School is organized as an Erasmus+ BIP (Blended Intensive Programme). As such, undergraduate students from the participating universities (University of Jyväskylä, Johannes Gutenberg University-Mainz, University of Palermo, University of Valencia, University of Latvia) and other Erasmus+ institutions can get 3 ECTS by fulfilling the corresponding assessment criteria.

INVITED TALKS

Atomic, Molecular and Nuclear Physics

What holds atomic nuclei together?, Tuomas Grahn, University of Jyväskylä

Studying elementary particles at the LHC and highlights from the ATLAS experiment, Lucia Masetti, Johannes Gutenberg University-Mainz

Standard Model of particle physics: What's (the) matter?, Víctor Martín Lozano, University of Valencia

Neutrinos: the invisible particles, Laura Molina, IFIC-CSIC

Study of matter, antimatter, and dark matter at the LHCb experiment, Jiahui Zhuo, IFIC-CSIC

Applications of Physics in Medicine, Vicent Giménez-Alventosa, University of Valencia

Environmental radiation, Mireia Simeo, University of Valencia

Astroparticles: Messengers from the Cosmos, Adriana Bariego, IFIC-CSIC

Dark matter: What is it and how to detect it, Juan Palacios, University of Valencia

Computing challenges in particle physics, Helena Burriel, University of Valencia

Optics, Optometry and Vision Science

TBD, Mauro Paternostro, University of Palermo

Molecules in Vision Science, Valeria Militello, University of Palermo

Laser-induced breakdown spectroscopy, Saara Kaski, University of Jyväskylä

Phase-retrieval in Optics, Varis Karytans, University of Latvia

TBD, Peter Loock, Johannes Gutenberg University-Mainz

Quantum fluids of light, Heitor da Silva, University of Valencia

Characterization of intraocular lenses, Anabel Martínez, University of Valencia

Predicting and modelling human color vision, Paula García Balaguer, University of Valencia

Holography as a metrology tool in Physics, Rosa Vila Andrés, University of Valencia

Mass measuring using light, sound and their interplay, Anna Garrigues, University of Valencia

General/multidisciplinary topics

Using lasers to unlock the secrets of art and archaeology, Ana J. López, University of A Coruña

Visual Illusions, Álvaro Pons, University of Valencia

Probing the core: the history of the atomic nucleus, Alberto Aparici (scientific communicator), Spain

But photons and electrons have no sex/gender! So... how to include gender dimension in Physics?, Pascuala García, University of Valencia

The importance of Physics at Hospital: Career opportunities in Medical Physics, José M. Calatayud, Francesc de Borja Hospital (Gandia, Spain)

Round table: Career prospects

Round table: Erasmus experiences across Europe

POSTER SESSION

CONTRIBUTIONS FROM PARTICIPANTS

LEISURE ACTIVITIES

Valencia historical center and La Nau (University of Valencia's historical headquarters) guided tours

Open air concert: CARLOS NAVARRETE + VALMUZ + EMC UPV

Collaborative games

Closing lunch of the School

Free time to discover Valencia life

ECTS RECOGNITION

BIP participants will be divided into small working teams with members from different universities to deepen the contents of some of the lectures.

Assesment criteria for ECTS recognition:

- Attendance to the academic activities (80% hours minimum)

AND

- Preparation of written compositions/presentations* on two conferences chosen by the working teams from a pool of suggestions of the School's organizing committee OR Oral presentation (15 min approx.) OR Poster preparation and discussion in the poster session

* to be prepared remotely in the two weeks after the physical mobility component

REGISTRATION

Please contact the Erasmus office at your home institution for the proper registration in the BIP programme and funding, as well as for the recognition of ECTS.

Registration deadline for School's organisational purposes: June 15, 2024. Limited number of places available.

Please fill in the registration form below:

[\[https://forms.gle/S4d5fKaUeze9qciS9\]](https://forms.gle/S4d5fKaUeze9qciS9)

REGISTRATION FEE

BIP participants are exempt from paying the registration fee.

Registration to the School includes:

- coffee breaks

- lunches

- tickets for the guided tours

- ticket for the open air concert

- closing lunch

Contact: e3f@uv.es





Faculty of Physics



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