There are no translations available.

1st European solar physics division (ESPD) summerschool: Energisation and heating in the solar plasma

29 April - 3 May 2024
Dubrovnik, Croatia

In-person only



European solar physics division board is organizing a summerschool in 2024 as a pilot project to what could in future become a summerschool series. The theme of the school is Energisation and heating in the solar plasma, outlining the mechanisms which may operate to produce the solar wind, to heat the corona and to drive the transient events observed in the solar atmosphere, such as flares and coronal mass ejections.

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Scientific organisers – ESPD board

The European Solar Physics Division (ESPD) of the European Physical Society (EPS) represents and provides a forum for European scientists, primarily, and any scientist, secondarily, interested in aspects of the physics of the Sun. The objective of the ESPD is the advancement of the study of the Sun, the dissemination of key results of solar physics research to the general public, and the promotion and coordination of such research with other areas and branches of the physical sciences. Every 3 years the board organizes European Solar Physics meeting (ESPM).

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Program

ESPD 2024 summerschool final program (pdf)

THEME: Energisation and heating in the solar plasma
Short description: the theme outlines the mechanisms which may operate to produce the solar wind, to heat the corona and to drive the transient events observed in the solar atmosphere, such as flares and coronal mass ejections.

Lecture topics:

1. Waves and instabilities in solar atmospheric plasma, Tom van Doorsseleare (KU Leuven, BEL)
2. Evolution of magnetic fields and magnetic reconnection, Eric Priest (Uni. St. Andrews, UK)
3. Physics of flares and CMEs, Lyndsay Fletcher (Uni. Glasgow, UK)
4. Solar energetic particles, Rami Vainio (Uni. Turku, FIN)
5. Heating and acceleration of the solar wind, Viviane Pierrard (BIRA, Belgium)
6. Turbulence in the heliosphere, Vincenzo Carbone (Uni. Calabria, ITA)

Hands-on sessions:

1. JHelioviewer, David Berghmans (ROB, Belgium)
2. Sunpy, Laura Hayes (ESA)
3. Machine learning, Carlos José Díaz Baso (Uni Oslo)

Non-scientific lecture:
How to keep your mental health in shape, David Horsfall (Uni. Newcastle)

Confirmed lecturers: Eric Priest (Uni. St. Andrews, UK), Tom van Doorsseleare (KU Leuven,

BEL), Lyndsay Fletcher (Uni. Glasgow, UK), Rami Vainio (Uni. Turku, FIN), Vincenzo Carbone (Uni. Calabria, ITA), Viviane Pierrard (BIRA, Belgium)

Confirmed hands-on session presenters: Laura Hayes (ESA), Carlos José Díaz Baso (Uni Oslo), David Berghmans (ROB, Belgium)

Important dates - timetable

Release of tentative program and registration fees - **late 2023**
Application opens: **January 1st 2024**
Application closes: **January 31st 2024**
Application decision sent: **end of February 2024**

Application & registration

The application for 1st European solar physics division (ESPD) summerschool: Energisation and heating in the solar plasma is closed.

NOTES:

- Students that were selected for attending the school will receive the registration link by email. For details contact the local organiser .
- There is limited possibility to come with accompanying person, if there are such plans please include them in the application letter. We encourage students to share accommodation, if you have specific shared accommodation preferences please note them in the application letter.
- Registration will open after the application process is finished. Note that there will be a small **registration fee of 150 EUR** per student (which does not include accommodation costs!).
- The school will be **held in-person only**.
- Due to capacity limits of the classrooms and the dormitory the number of students attending is **limited to 40-45 students**.

Contact

Local organizer (LOC):
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LOC helpers: Jaša Čalogović, Filip Matković, Domagoj Ruždjak.

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If you would like to sponsor this event or otherwise support it please contact the LOC.