

Swiss EST Workshop, October 8 – 9, 2025, Locarno

Program

All talks are 15min + 5min for Q&A

----- October 8 -----

- 12:30–13:00 Arrival, registration, coffee
- 13:00–13:10 Welcome
- 13:10–15:10 Session 1: EST and Swiss solar science and instrumentation**
Chair: Carlo Albert (ETHZ/EAWAG)
- 13:10–13:30 Hector Socas-Navarro (EST FC, Spain): *The European Solar Telescope: A status update. Part I*
- 13:30–13:50 Svetlana Berdyugina (IRSOL/USI) & Swiss EST Consortium: *Solar science in Switzerland*
- 13:50–14:10 Laurent Jolissaint (HEIG-VD): *Recent achievements in astronomical instrumentation at the University of Applied Science Western Switzerland and application to the EST*
- 14:10–14:30 Renzo Ramelli (IRSOL): *Science and instrumentation developments at IRSOL and contributions to the EST*
- 14:30–14:50 Simone Ulzega (ZHAW) & Carlo Albert (ETHZ/EAWAG): *Shedding light on the solar dynamo using Bayesian data science*
- 14:50–15:10 Andrea Battaglia (IRSOL), Säm Krucker (FHNW), Louise Harra (ETHZ/PMOD/WRC), Lucia Kleint (Uni Bern): *Current and future solar space missions with Swiss contributions*
- 15:10–15:40 Coffee break
- 15:40–16:20 Discussion Panel on Swiss contribution to the EST instrumentation**
Moderator: Svetlana Berdyugina (IRSOL/USI)
Hector Socas-Navarro (EST FC, Spain), EST FC Director
Claudia Ruiz de Galarreta (EST FC, Spain), EST Instruments Systems Engineer
Michel Hübner (EPFL), Industrial Liaison Adviser, Swiss ILO Office, Lausanne
- 16:20–18:00 Session 2: Sun as a laboratory for astro-, geo- and fundamental physics**
Chair: Simone Ulzega (ZHAW)
- 16:20–16:40 Patrick Eggenberger (Uni Geneva): *Open questions in stellar physics*
- 16:40–17:00 Xavier Dumusque (Uni Geneva): *A decade of disc-integrated solar observation at the m/s precision*
- 17:00–17:20 Martin Wild (ETHZ/IACS): *Decadal changes in solar radiation reaching the Earth's surface*
- 17:20–17:40 Maria Grazia Giuffreda (ETHZ/CSCS): *Opportunities for large international infrastructures with CSCS*
- 17:40–18:00 Daniele Allegri (ISEA/SUPSI): *Development of scientific instrumentation and industrial applications at the ISEA, SUPSI Department of Innovative Technologies*
- 19:00 Social dinner

----- **October 9** -----

09:00–09:10 Welcome by Prof. Dr. Patrick Gagliardini, USI Pro-Rector for Research

09:10–11:10 Session 3: Numerical technologies and synergies with other large research infrastructures

Chair: Oskar Steiner (IRSOL)

09:10–09:30 Hector Socas-Navarro (EST FC, Spain): *The European Solar Telescope: A status update. Part II*

09:30–09:50 Brandon Panos (FHNW): *A Spin-Glass Formulation for Solar Magnetic Field Disambiguation*

09:50–10:10 Ernst Wit (USI/Informatics): *Computer science expertise at the USI Faculty of Informatics*

10:10–10:30 Riccardo Ben Ali Zinati (USI/Economics): *Generalized Bayesian inference for chaotic systems*

10:30–10:50 Volodymyr Savchenko (EPFL): *Open access data and science initiatives for astro- and particle physics in Switzerland*

10:50–11:10 Rohit Sharma (FHNW): *Solar and Heliospheric Physics with SKA*

11:10–11:30 Coffee break

11:30–12:00 Discussion Panel on Swiss contribution to the EST Data Centre

Moderator: Brandon Panos (FHNW)

Hector Socas-Navarro (EST FC, Spain)

Patrick Gagliardini (USI)

Volodymyr Savchenko (EPFL)

Giovanni Guerrieri (CERN)

12:00–12:05 Concluding remarks

12:05 Adjourn