STIX team meeting in Genova May 19-21, 2025

https://sites.google.com/view/stix-meeting-2025-19-21-may-20/home

'final' agenda from May 12, 2025

Guidelines: invited talks (30 min), contributing talks (15 min), on-line talks (10 min) Room: The conference will take place in Room 706 (see webpage to find conference site) Zoom link: <u>https://fhnw.zoom.us/j/62844438369?pwd=E3VL9WyFBZM9He4Q7auLVmg7w1bduN.1</u>

Monday May 19

STIX update I	09:30-11:00
 Welcome STIX update (Säm Krucker) Detector update (Olivier Limousin) Latest results on the STIX data calibration process (Paolo Massa) Update pipeline (Shane Maloney) 	
Coffee break	11:00-11:30
STIX update II	11:30-13:00
 An in-depth analysis of background level registered by STIX in every pixe Five years of Solar Orbiter and STIX pointing (Frederic Schuller) STIX Imaging algorithms (Genova) MARLIN update (Wrocław) Greedy approaches for astronomical imaging (Anna Volpara) 	el (Karol Kułaga)
Lunch (included in registration fee)	13:00-14:00
	13:00-14:00 14:00-15:30
Lunch (included in registration fee)	14:00-15:30 s of Solar flares
 Lunch (included in registration fee) Invited presentations & highlights Invited: Metis observations and data archive (Lucia Abbo) Invited: Probing ion acceleration through multiwavelength observations (Melissa Pesce-Rollins) 	14:00-15:30 s of Solar flares
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• Invited: STIX - A Retrospective (Gordon Hurford)

Tuesday May 20

Science contribution

- CoSEE-Cat: a Comprehensive Solar Energetic Electron event Catalogue (Alexander) Warmuth)
- Updates from the Solar Orbiter Archive: Field-of-View Tool and Flare-SEP Linkage Tool (Nils Janitzek)
- ONLINE: Observations and modeling of solar flare energetic electrons in hard X-ray, radio and in-situ near 1 AU (Yuankun Kou)
- A new methodology for inferring the plasma conditions in solar flare energetic electron source regions from in-situ electron energy spectra (Samuel Carter)

Coffee break

Science contributions

- Probing seed electron characteristics through nonthermal emission and solar energetic electrons (SEEs): STIX and EPD observations (Arun Kumar Awasthi)
- Solar Flare Accelerated Electrons and their Radio Emission Along the Parker Spiral: Simulations and Simultaneous Observations from SolO, PSP, STEREO & WIND (Daniel Clarkson)
- Transient and diverse coronal jets around an erupting filament captured by Solar Orbiter (Song Tan)
- Radio-monitoring Solar Radio Orbiter Instruments: tools for fast access to space and ground-based radio observations (Abdallah Hamini)
- Online: Close look at flares during recent Solar Orbiter perihelion from X-ray and radio perspective (Shilpi Bhunia/Laura Hayes)

Lunch (included in registration fee)

Science contributions	14:00-15:30
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- Disentangling EUV Emission from the Solar Transition Region and Corona Using Solar Orbiter and SDO Observations and 3D Data-Constrained Modeling with GX Simulator (Gelu M. Nita)
- Prolific Solar Flare Factories: Monitoring Active Region Nests with Solar Orbiter (Adam Finley)
- Analysis of intense flares occurring on a long-lasting active nest in the Sun as seen by SolarOrbiter/STIX (Allan Sacha Brun)
- Sympathetic flares and magnetohydrodynamical avalanches (Antoine Strugarek)

Coffee break

15:30-16:00

09:30-11:00

13:00-14:00

11:00-11:30

11:30-13:00

Science contribution:

- Reduction of the Downward Energy Flux of Nonthermal Electrons in the Solar Flare Corona due to Co-spatial Return-current Losses (Meriem Alaoui)
- Hard X-ray Intensity Profiles in a Solar Flare Atmosphere with Turbulent Thermal and Electrical Conductivities (Gordon Emslie)
- Using the python based Sunkit-Spex to fit STIX spectra (Jake Mitchell)
- Online: Total Power and Low-energy Cut-off Time Evolution of Solar Flare Accelerated Electrons Using X-Ray Observations and Warm-Target Model (Debesh Bhattacharjee)
- Online: Characterizing Flare-Associated Electrons with HXR Warm-Target and DEM Diagnostics (Yingjie Luo)

Dinner (details will be provided on the webpage)	~20:00
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Wednesday May 21

Science contribution	09:30-11:15
• What Do STIX Flares Look Like? A Statistical Exploration of Flare Time Profile	es (Laura Hayes)

- Imaging the superhot thermal component with STIX (Muriel Zoë Stiefel)
- Emission Measure Imaging from STIX Data (Alessia Guidetti)
- Observations of a faint non-thermal emission during a GOES C-class flare (Natalia Bainokova)
- TEMIRA performance for synthetic Palermo-Harvard flare models (Janus Sylwester)

Coffee break

Science contribution

- New insights into hard microflares (Andrea Francesco Battaglia)
- In search for strongly non-thermal flares using CNN-based machine learning algorithm (Dominik Gronkiewicz)
- Flares in X-ray and optical emission observed at Ondřejov observatory (Jana Kašparová)
- Limb-Occulted Flare Observations with HXI, GBM, and STIX (Säm Krucker)

Lunch (individual)

Splinter sessions

Question & answer: Analysis of specific flares

- Spectral fitting
- Flare list: next steps
- TBD

16:00-17:45

11:15-11:45

11:45-13:15

14:00-17:30

13:00-14:00