

CESRA 2023: Radio emission from the Sun to the Earth, Hatfield, UK, July 3-7,2023

Monday	
14:00 Opening session (Lindop building A154)	Chair: E. Kontar
	Welcome to Herts (Martin Hardcastle) Message from SOC (Eduard Kontar) Message from LOC (Mykola Gordovskyy) WG Introductions (by WG co-leaders 2min per WG)
14:30 Plenary session (Lindop building A154)	Chair: E. Kontar
14:30 P.K. Browning	An Overview of Particle Acceleration Modelling (invited)
15:00 D. Ryan	The Spectrometer/Telescope for Imaging X-rays: Solar Orbiter's X-ray Eyes on the Sun (invited)
15:30 K.L. Klein	Non-thermal and thermal electron signatures during a type IV burst
15:45 A. Gunessee	Can a deep learning approach of detecting solar radio bursts perform better than the interquartile range threshold outlier detection method?
16:00 Coffee & Posters (Lindop building)	
WG1 (Lindop building A161)	WG2 (Lindop building A154)
16:30 P. Zucca - Observations of the Sun and heliosphere using LOFAR for a coordinated ground and space-based approach to Space-Weather research	D. Gary - Imaging of Coherent Microwave Bursts with EOVS
17:00 A. Warmuth - First results on interplanetary electron events obtained by joint observations of remote-sensing and in-situ instruments on Solar Orbiter	S. Mulas - Statistical studies and correlation investigation between solar flares occurrences and Active Regions' radio spectral evolution
17:30 C.Y. Lorfing - Electron beam energy distributions, Langmuir waves and associated Type III radio bursts measured by Solar Orbiter	Discussion
	WG4 (Lindop building A166)
	A. Pellizzoni - Single-Dish Radio Monitoring of the Solar Atmosphere with INAF Radiotelescopes: Early Scientific Results and Future Challenges
	M. Barta - Using ALMA as a prominence thermometer
	Discussion
18:00	Reception/Welcome drinks (Lindop building)
Tuesday	
9:30 Plenary session (Lindop building A154)	Chair: C. Alissandrakis
9:30 S. Musset	Multi-spacecraft observations of solar radio bursts and anisotropic scattering of radio waves (invited)
10:00 I.C. Jebaraj	Understanding interplanetary radio emissions in the era of Parker Solar Probe and Solar Orbiter (invited)
10:30 Coffee & Posters (Lindop building)	
11:00 N. Chrysaphi	Scattering in solar radio bursts: implications for the observed properties (invited)
11:30 G. Nita	Active region and solar flare modelling with GX simulator (invited)
12:00 L. Alberto Canizares	Triangulation of Type III solar radio bursts using the BayEsian LocalIzation Algorithm (BELLA)
12:15 A. Valentino	Forecasting CME arrival time to Earth using EUHFORIA and radio observations
12:30 Lunch	

14:00 Plenary session (Lindop building A154)

Chair: N. Chrysaphi

- 14:00 N. Nitta Type II Radio Bursts and Other Heliophysical Phenomena (invited)
 14:30 D. Morosan Interferometric observations of the radio emission from CMEs (invited)
 15:00 D. Kansabanik Deciphering Faint Gyrosynchrotron Emission from Coronal Mass Ejection using Spectro-polarimetric Radio Imaging
 15:15 K. Shibasaki Bohr-van Leeuwen Paradox

15:30 Coffee & Posters (Lindop building)**WG2 (Lindop building A154)****WG3 (Lindop building A161)****WG4 (Lindop building A166)**

- 16:00 Y. Luo - Utilizing a warm-target algorithm to analyze the electron acceleration during the impulsive phase of a solar flare
 16:30 H. Hudson - Hot Onset Precursor Events viewed at cm-mm wavelengths
 17:00 M. Broese - Flare-accelerated electrons and the evolution of the associated active region
 17:30 Discussion
- J. Yan - DSRT: A meter wavelength radio interferometer for solar observation
 J. Bussons - Towards a Next-Generation e-Callisto Network
 L. Wu - Introduction of DSRT Data Processing Pipeline
 Discussion
- M. Gordovskyy - Sizes and shapes of spike radio sources
 E.P. Kontar- Density turbulence from the Sun to the Earth and solar radio burst observed parameters
 Discussion

18:00 CESRA business meeting (all are welcome) (Lindop building A154)**Wednesday**

9:30

WG1 (Lindop building A161)**WG2+ (Lindop building A154)**

- 9:30 F. Schuller - STIX source imaging and magnetic connectivity for a large sample of SEP events
 10:00 A. Afanasiev - Self-consistent modeling of particle acceleration in shocks
- A. Kumari - Type III radio burst locations and propagation in the solar corona as interpreted with LOFAR interferometric observations
 C. Vocks - Fundamental and harmonic emission in LOFAR solar type III radio burst images

10:30 Coffee & Posters (Lindop building)**WG1 (Lindop building A161)****WG2 (Lindop building A154)****WG3 (Lindop building A166)**

- 11:00 M. Kretzschmar - First detection of the magnetic component of a type III radio burst
 11:30 Discussion
 12:00
- S. Bhunia - Detailed look at the temporal correlation between hard X-ray flare and type III radio bursts
 N. Vilmer - Statistical study of type III bursts and associated HXR emissions
 A. James - Estimating the total energy content in escaping accelerated solar electron beams
- P. Zhang - Energetic electron beam traces in CME revealed by interferometric imaging of Herringbone structure in CME
 S. Feng - Sources of a "framed" type II radio burst in the corona—An evidence of multiple coronal shock waves
 A. Nindos - Multiwavelength observations of a metric type-II event

12:30 Lunch

14:00

WG1 (Lindop building A161)**WG2+ (Lindop building A154)**

- 14:00 J. Magdalenic - Mapping propagation of the type III radio bursts
 14:30 K. Deshpande - Radio Triangulation of subsequent type III radio bursts
 15:00 Discussion
- C. Alissandrakis - Radio and EUV emission from MHD simulations of coronal jets
 G. Fleishman - Data-constrained 3D modeling of a solar flare evolution: acceleration, transport, heating, and energy budget
 Discussion

15:30 Coffee & Posters (Lindop building)

	WG2+WG1 (Lindop building A154)	WG3 (Lindop building A161)
16:00	F. Azzollini - Nonlinear Diffusion with Advection of Flare Accelerated Electrons and Langmuir Wave Generation: Implications of Quasilinear Time Evolution	V. Vasanth - Imaging an Unusual High frequency Type-II Solar Radio Burst and their features in Lower Corona
16:30	H.A.S. Reid - Type III burst fine structure driven by Langmuir wave motion in turbulent plasma	A. Koval - Radio observations of type II solar burst with a mixture of spectral morphological patterns
17:00	J. Zhang - Imaging a Large Coronal Loop Using Type U Solar Radio Burst Interferometry	Discussion type II
17:30	Discussion	

20:00 Conference dinner (Hatfield House)**Thursday****9:30 Plenary session (Forum Theatre 1B560)**

Chair: K.-L. Klein

9:30	A. Afanasiev	Solar energetic particle acceleration in CME-driven shocks: Insights from numerical simulations and data analysis (invited)
10:00	V. Cuambe	C6.2 class flare parameters inferred with a 3D geometry of flare database
10:15	M. Marongiu	The first measure of the solar radius and the evidence of the coronal physical emission in the centimetric range with the Italian INAF radio telescopes

10:30 Coffee & Posters (Forum Theatre 1B560)

11:00	N. Gopalswamy	Space weather and solar radio emissions (invited)
11:30	D. Gary	OVRO-LWA
11:45	A. Nindos & E.P. Kontar & All	Discussion on solar physics with SKA

12:30 Lunch**Lunch****15:30 Excursion/Social****Friday****9:30 Plenary session (Lindop building A154)**

Chair: P. Browning

9:30	G. Fleishman & C. Vocks	WG4 Summary (25 mins)
9:55	A. Nindos & P. Zucca	WG3 Summary (25 mins)

10:20 Coffee break (Lindop foyer)

10:40	A. Warmuth & H.A.S. Reid	WG2 Summary (45 mins)
11:25	J. Magdalenic & K.L. Klein	WG1 Summary (25 mins)
11:50		Closing remarks (10min)

Posters (Lindop building foyer)

A. Afanasiev	Study of electron acceleration in interplanetary shocks through in situ observations and simulations
A. Afanasiev	Open-Source Analysis Platform for Solar Energetic Particles provided by SERPENTINE
O. Dudnik	Electron and ion-rich X-ray solar flares, and solar radio bursts detected with STIX, EPD and ground-based radio telescopes in December 2022
E.P. Kontar	Fraction of Electron Accelerated above 20 keV during the Impulsive Phase of a Solar Flare
C. Alissandrakis	Millimeter Wavelength Observations of Solar Spicules in a Polar Coronal Hole