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Solar event

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SEVENTH FRAMEWORK PROGRAMME

1. Document information

Document name:	Solar event – CESRA Solar Radio School, University of Glasgow, August 24-28, 2015
Type	Other
WP	4 (New Skills)
Authors	Eduard Kontar (University of Glasgow)

1.1 Dissemination Level

Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

1.2 Content

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2. Report

Following the success of previous CESRA summer schools, Glasgow University has hosting the 2015 CESRA radio summer school on the 24-28th August 2015. The school has been organised by CESRA, the Community of European Solar Radio Astronomers. The School has attracted 31 participants from 12 countries and featured both lectures and hand on activities. More than 30% of the participants were female.

The school was designed to solar radio physicists including PhD students and early career researchers. The school programme has covered the essential elements of theory, modelling and data analysis and will feature lectures and tutorials. Students had the opportunity to meet and discuss research topics with their peers together in an informal atmosphere.

Exelis Visual Information Solutions provided 2-week licences to all participants to allow to use IDL and IDL –based library SSW. University of Glasgow provided teaching space, computer/network facilities and secretarial/technical support absorbing indirect costs associated with organisation of the school.

The detailed information including the lectures and tutorial material is available via webpage:

http://www.astro.gla.ac.uk/cesra2015/

The school has strong presence in social media network. Lecture/tutorial highlights, pictures and video (Glasgow Communication service) are available online via twitter:

https://twitter.com/search?q=cesra2015&src=typd

Participants of the CESRA radio summer school on the 24-28th August 2015

2.1 Meeting programme

	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:00	Registration				
09:00 – 10:30	**Lecture 1** Introduction and (introductory) overview of solar emissions (*Eduard Kontar, U. of Glasgow*)	**Lecture 3** Quiet-Sun radio emission and non-flaring radio Sun (Costas *Alissandrakis, Ioannina*)	**Lecture 5** Observations of non-thermal energetic particle radio emission at meter wavelengths (*Nicole Vilmer, LESIA*)	**Lecture 7** Simulating emission with 3D GX simulator (*Gelu Nita, NJIT*)	**Lecture 9** Theory of GHz and mm-submm radio emissions from flaring loops (*Alexey Kuznetsov, Institute of Solar-Terrestrial Physics*
10:30 – 11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00 – 12:30	**Lecture 2** Solar radio data: spectra, images, observations (*Christophe Marque, ROB*)	**Lecture 4** Solar radio emission below ionospheric cut-off (*Stuart Bale, Berkeley*)	**Lecture 6** Numerical simulations of non-thermal particles (*Hamish Reid, U. of Glasgow*)	**Lecture 8** Working with LOFAR data (*Richard Fallows, Astron*)	**Lecture 10** Working with ALMA data (*Miroslav Barta, Astr Inst Chezh rep & Anita Richards, U. of Manchester*)
12:30 – 13:30	Lunch	Lunch	Lunch	Lunch	Lunch
13:30 – 15:00	**Tutorial 1** Introduction and (introductory) overview of solar emissions (*Eduard Kontar, U. of Glasgow*)	**Tutorial 3** Quiet-Sun radio emission and non-flaring radio Sun (*Costas Alissandrakis, Ioannina*)	**Tutorial 5** Observations of non-thermal energetic particle radio emission at meter wavelengths (*Nicole Vilmer, LESIA*)	**Tutorial 7** Simulating emission with 3D GX simulator (*Gelu Nita, NJIT*)	**Tutorial 9** Theory of GHz and mm-submm radio emissions from flaring loops (*Alexey Kuznetsov, Institute of Solar-Terrestrial Physics*
15:00 – 15:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
15:30 – 17:00	**Tutorial 2** Solar radio data: spectra, images, observations (*Christophe Marque, ROB*)	**Tutorial 4** Solar radio emission below ionospheric cut-off (*Stuart Bale, Berkeley*)	**Tutorial 6** Numerical simulations of non-thermal particles (*Hamish Reid, U. of Glasgow*)	**Tutorial 8** Working with LOFAR data (*Richard Fallows, Astron*)	**Tutorial 10** Working with ALMA data (*Miroslav Barta, Astr Inst Chezh rep & Anita Richards, U. of Manchester*)
Evening	Welcome Reception	Social	CESRA Dinner	Social	Depart

2.3 Participants list

	Name	Institution	Country
1.	Ben Alcock	University of Glasgow	United Kingdom
2.	Dmitrijs Bezrukovs	Ventspils International Radio Astronomy Center of Ventspils University College	Latvia
3.	Dr. Roman Brajsa	Hvar Observatory, Faculty of Geodesy, University of Zagreb	Croatia
4.	Dr Eoin Carley	Paris Observatory	France
5.	Rafael Douglas Cunha-Silva	Universidade do Vale do Paraíba	Brazil
6.	Karin Dissauer	University of Graz	Austria
7.	Christopher Goddard	University of Warwick	UK
8.	Aaron Hernandez	University of Graz	Austria
9.	Mr Dmitrii Kolotkov	University of Warwick	United Kingdom
10.	Barbara Kopnina	Saint-Petersburg State University	Russia
11.	Dr Vratislav Krupar	Imperial College	United Kingdom
12.	Dr Oksana Kruparova	Institute of Atmospheric Physics CAS	Czech Republic
13.	Mr Sergei Kuznetsov	Pulkovo Observatory	Russia
14.	Dr Sha Li	National Astronomical Observatories, Chinese Academy of Sciences	China
15.	Alexandra Lysenko	Ioffe Institute	Russian
16.	Carolina Salas Matamoros	Observatoire de Paris	France
17.	Barbara Matyjasiak	Space Research Centre Polish Academy of Sciences	Poland
18.	Diana Morosan	Trinity College Dublin	Ireland
19.	Ms. Sargam Mulay	University of Cambridge	United Kingdom
20.	Jan Graf von der Pahlen	Queen Mary University of London	United Kingdom
21.	Dorota Przepiórka	Polish Academy of Sciences	Poland
22.	K. Sasikumar Raja	Indian Institute of Science Education and Research-Pune	India
23.	Ray Fernando Hidalgo Ramirez	Centre of Radio Astronomy and Astrophysics Mackenzie (CRAAM)	Brazil
24.	Alexander Morgachev	Pulkovo observatory	Russia
25.	Rohit Sharma	National Centre for Radio Astronomy	India
26.	Duncan Stackhouse	University of Glasgow	United Kingdom
27.	Dr David Tsiklauri	Queen Mary University of London	United Kingdom
28.	Paul Wright	University of Glasgow	United Kingdom
29.	Liu Yang	Peking University	China
30.	Sijie Yu	National Astronomical Observatories, Chinese Academy of Sciences	China
31.	Dr. Pietro Zucca	Trinity College Dublin	Ireland

2.5 Information of the EC financial contribution

The project RadioNet3 has supported travel expenses of 2 lecturers and 14 students (approx. 7000€) and the local organiser costs (approx. 1600€):

Lecturer

- Costas Alissandrakis,
- Gelu Nita

Students

- Dr Oksana Kruparova
- Carolina Salas Matamoros
- Christopher Goddard
- Sijie Yu
- Dr Vratislav Krupar
- Rafael Douglas Cunha-Silva
- Barbara Kopnina
- Dmitrijs Bezrukovs
- Rohit Sharma
- Dmitrii Kolotkov
- Sargam Mulay
- Dorota Przepiórka
- Barbara Matyjasiak
- K. Sasikumar Raja

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