This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824135.

SOLARNET: High-resolution Solar Physics Network

WORK PACKAGE 3
NA2: Network activities
to foster synergistic collaborations

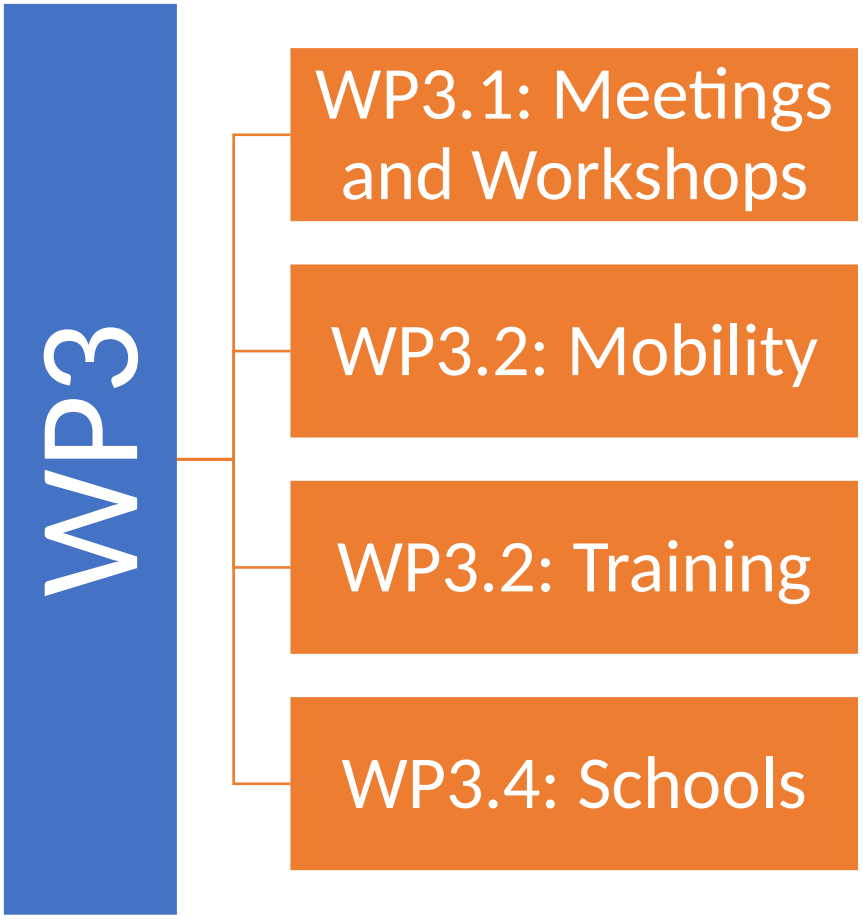
2nd SOLARNET General Assembly
5th February 2021

Francesca Zuccarello

UNIVERSITÀ degli STUDI di CATANIA

DIPARTIMENTO di FISICA e ASTRONOMIA "Ettore Majorana"

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824135.



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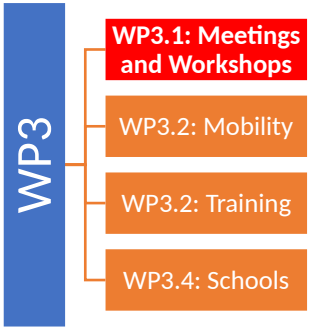
WP3.1 Meetings

	Time	Title	Location	Org.
	Y2/Q3 ~~**(5-9 Oct 2020)**~~ **POSTPONED**	Sun and Society	Italy (Venice)	UToV
	Y3/Q3 **(20 -24 Sept 2021)**	The Many Scales of the Magnetic Sun	Germany (Potsdam, (Telegrafenber)	AIP
	Y4/Q3 **(Sept 2022)**	The Sun as a paradigm in astrophysics	Italy (Catania)	UNICT



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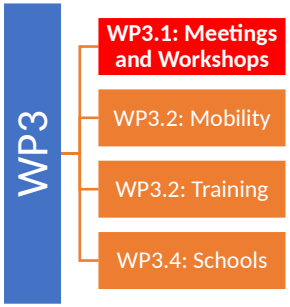
Meeting 1
Sun and Society
Organizer: Francesco Berrilli (UToV)



Profile Programme Dates Registration and payment Venue/ Hotel/ Travel Contributions Participants

SOLARNET International Conferences
Sun and Society

Date: ~~**5 – 9 October 2020**~~ **POSTPONED TO 2021**

Venue: Venice International University (VIU) in the island of San Servolo (Venice) **(?)**

- DUE TO THE STILL ON-GOING **COVID-19 PANDEMIA**, WE NEED TO REVISE THE ENTIRE MEETING SCHEDULE

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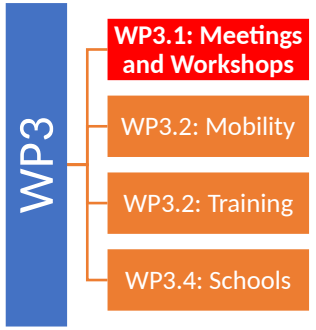
WP3.1 Meetings:
PROPOSAL FOR A NEW SCHEDULE

Time	Title	Location	Org.
20 -24 SEPT 2021	The Many Scales of the Magnetic Sun	Germany (Potsdam, (Telegrafenber)	AIP
May 2022 or September 2022	Sun and Society + The Sun as a paradigm in astrophysics	Italy (place TBD)	UToV + UNICT



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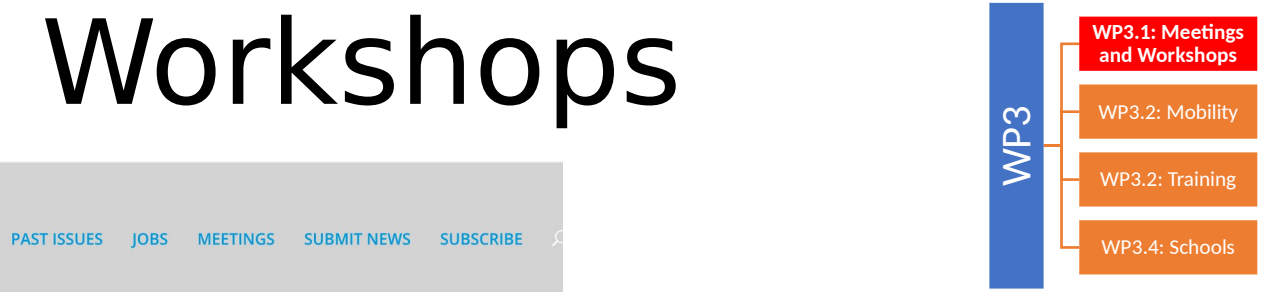
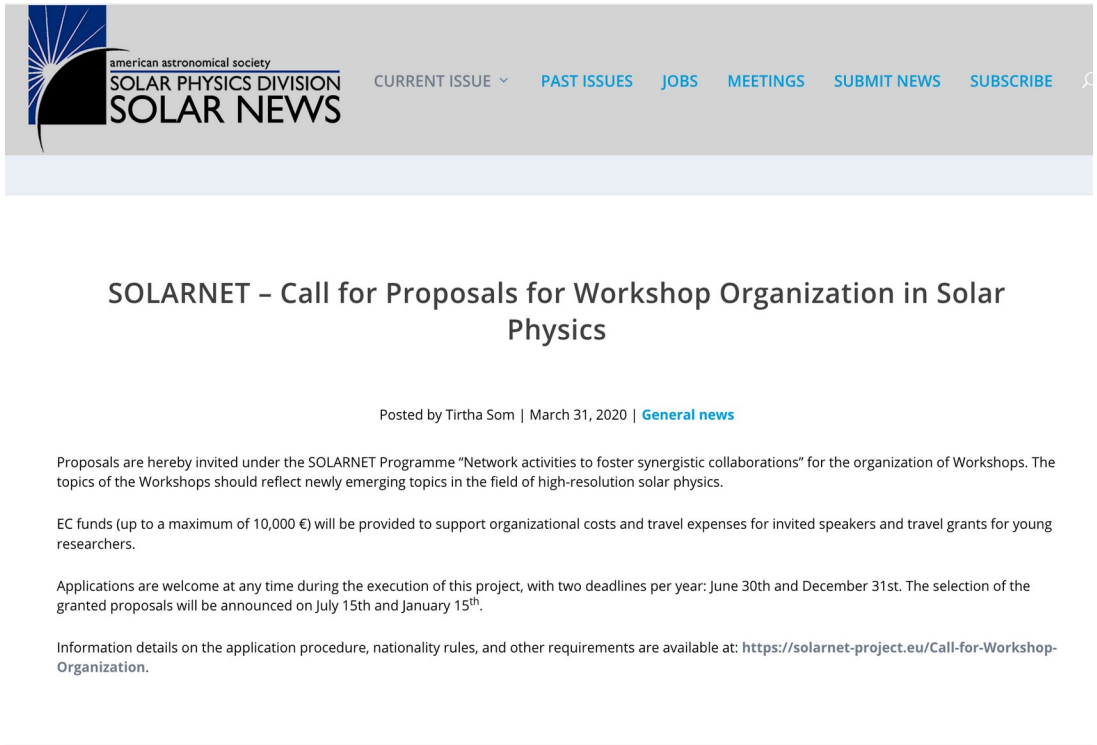
Workshops




american astronomical society
SOLAR PHYSICS DIVISION
SOLAR NEWS

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SOLARNET – Call for Proposals for Workshop Organization in Solar Physics

Posted by Tirtha Som | March 31, 2020 | General news

Proposals are hereby invited under the SOLARNET Programme "Network activities to foster synergistic collaborations" for the organization of Workshops. The topics of the Workshops should reflect newly emerging topics in the field of high-resolution solar physics.

EC funds (up to a maximum of 10,000 €) will be provided to support organizational costs and travel expenses for invited speakers and travel grants for young researchers.

Applications are welcome at any time during the execution of this project, with two deadlines per year: June 30th and December 31st. The selection of the granted proposals will be announced on July 15th and January 15th.

Information details on the application procedure, nationality rules, and other requirements are available at: https://solarnet-project.eu/Call-for-Workshop-Organization.

Two deadlines per year: June 30th and December 31st.

The selection of the granted proposals is announced on July 15th and January 15th.

Proposals are handled by the **SOLARNET Workshop Evaluation Committee.**

Composition of the SOLARNET Workshop Evaluation Committee:

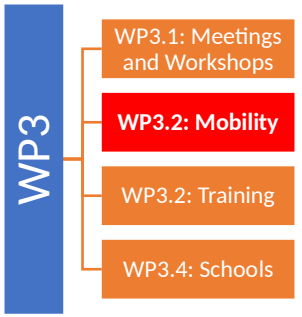
- Francesco Berrilli, UNITOV, Italy
- Markus Roth, KIS, Germany
- Meetu Verma, AIP, Germany
- Francesca Zuccarello, UNICT, Italy

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824135.

WP3.2: Mobility of ESRs and senior researchers (Lead: UNICT)

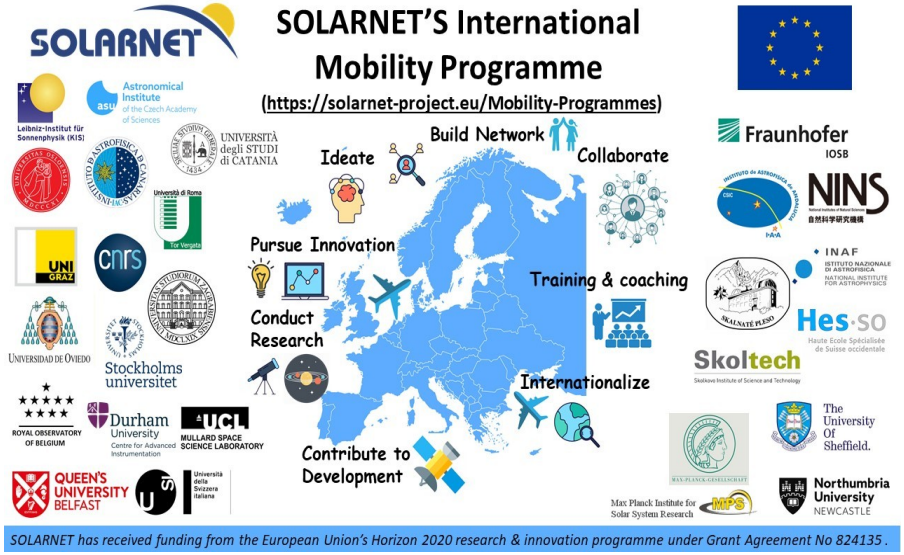
WP3.2 is aimed at promoting visits of **PhD students**, **young post-docs** and **senior researchers** at host institutions.

- **Periodic Calls (2 Calls per year)**
- Evaluation of the applicant's proposals by a Committee (**MEC**)
- 30 ESRs and 15 senior researchers
- **Funds** for this activity: **120 k€**



Members of the Mobility Evaluation Committee

Michele Bianda, IRSOL, Switzerland
Robertus von Fay-Siebenburgen, U. of Sheffield, UK
Peter Gomory, AISAS, Slovakia
Arnold Hanslmeier, U. of Graz, Austria
Sarah Matthews, UCL-MSSL, UK
Francesca Zuccarello, UNICT, Italy



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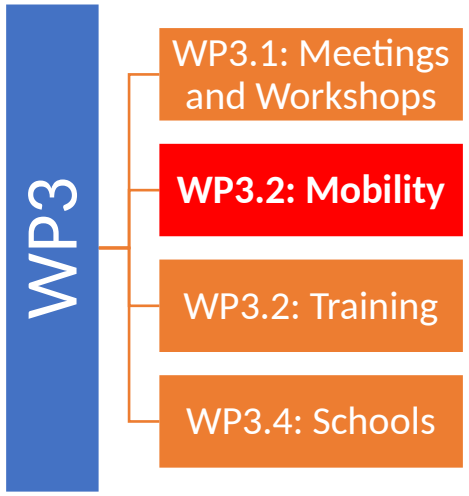
WP3.2: Mobility of ESRs and senior researchers (Lead: UNICT)



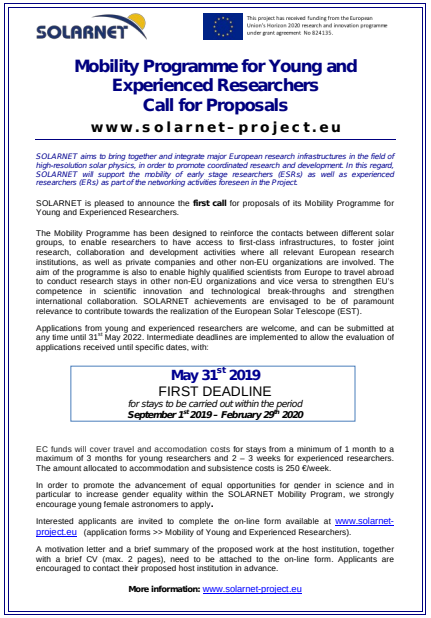
- **1st Mobility Call**: April 15th, 2019 (number of applications received: 7 ESRs and 1 Senior Researcher);

- **2nd Mobility Call**: October 15th, 2019 (number of applications received: 11 ESRs and 4 Senior Researcher);

- **3rd Mobility Call**: April 15th, 2020 (number of applications received: 8 ESR);

- **4th Mobility Call**: Call Postponed

Several ESRs and Senior Researchers granted with the 3rd Mobility Call had to interrupt and/or postpone their stays at the Host Institutions (Covid-19 pandemia effects)



SOLARNET

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Mobility Programme for Young and Experienced Researchers
Call for Proposals

www.solarnet-project.eu

SOLARNET aims to bring together and integrate major European research infrastructures in the field of high-resolution solar physics, in order to promote coordinated research and development. In this regard, SOLARNET will support the mobility of early stage researchers (ESRs) as well as experienced researchers (ERs) as part of the networking activities foreseen in the Project.

SOLARNET is pleased to announce the **first call** for proposals of its Mobility Programme for Young and Experienced Researchers.

The Mobility Programme has been designed to reinforce the contacts between different solar groups, to enable researchers to have access to first-class infrastructures, to foster joint research, collaboration and development activities where all relevant European research institutions, as well as private companies and other non-EU organizations are involved. The aim of the programme is also to enable highly qualified scientists from Europe to travel abroad to conduct research stays in other non-EU organizations and vice versa to strengthen EU's competence in scientific innovation and technological break-throughs and strengthen international collaboration. SOLARNET achievements are envisaged to be of paramount relevance to contribute towards the realization of the European Solar Telescope (EST).

Applications from young and experienced researchers are welcome, and can be submitted at any time until 31st May 2022. Intermediate deadlines are implemented to allow the evaluation of applications received until specific dates, with:

May 31st 2019
FIRST DEADLINE
for stays to be carried out within the period
September 1st 2019 - February 29th 2020

EC funds will cover travel and accomodation costs for stays from a minimum of 1 month to a maximum of 3 months for young researchers and 2 – 3 weeks for experienced researchers. The amount allocated to accommodation and subsistence costs is 250 €/week.

In order to promote the advancement of equal opportunities for gender in science and in particular to increase gender equality within the SOLARNET Mobility Program, we strongly encourage young female astronomers to apply.

Interested applicants are invited to complete the on-line form available at www.solarnet-project.eu (application forms >> Mobility of Young and Experienced Researchers).

A motivation letter and a brief summary of the proposed work at the host institution, together with a brief CV (max. 2 pages), need to be attached to the on-line form. Applicants are encouraged to contact their proposed host institution in advance.

More information: www.solarnet-project.eu

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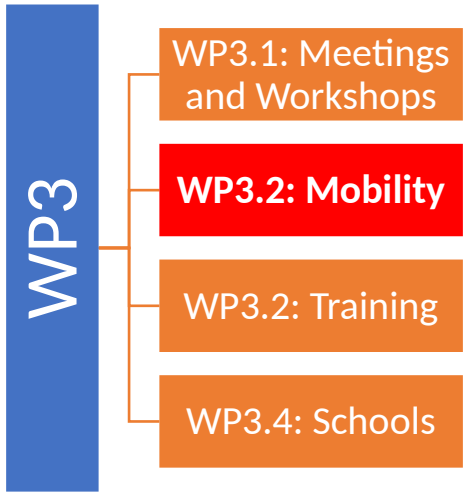
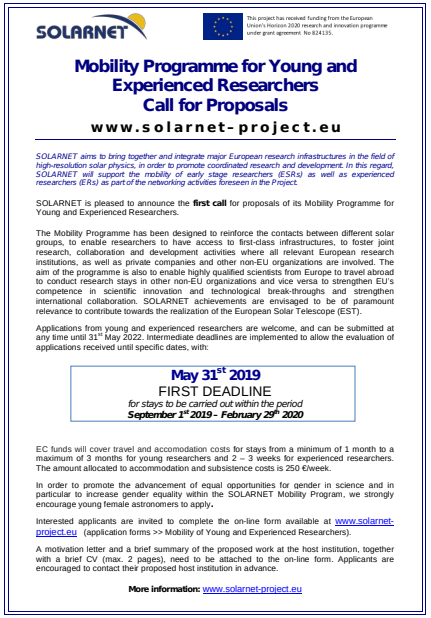
WP3.2: Mobility of ESRs and senior researchers (Lead: UNICT)



- **Decision agreed during the SOLARNET Mid-Term Review Meeting: due to the Covid-19 pandemia, Mobility Calls are suspended till when the situation will improve.**

- **We should consider a new possibility: Mobility through *remote mentoring***

- **Another goal to be reached: *promote mobility and exchange between scientific institutions and industrial partners***



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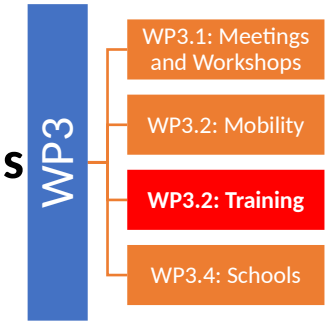

WP3.3: Training for Solar Observers — A week above the clouds (Lead: KIS)

Status	Time	Activity	Lecturers	Location	Org.
Done	Y1 (5 – 9 August 2019)	Solar telescopes GREGOR and VTT	A. Ramos (IAC) C. Fischer (KIS) C. Kuckein (AIP) A. Leonard (Aperio Software Ltd.) R. Schlichenmaier (KIS) W. Schmidt (KIS) N. Vitas (IAC)	Canarian Islands	KIS
Cancelled due to COVID 19	Y2 (Summer 2020)	Solar telescopes GREGOR and VTT	~~TBD~~	Canarian Islands	KIS
Organisation to be planned	Y3 (Summer 2021)	Solar telescopes GREGOR and VTT	TBD ???	Canarian Islands	KIS
Organisation to be planned	Y4 (Summer 2022)	Solar telescopes GREGOR and VTT	TBD	Canarian Islands	KIS

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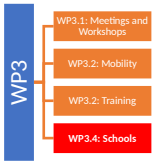

WP3.4: Summer / Winter Schools (Lead: UNICT)

- Expected number of participants in each School: ~ **25-30 ESRs**.
- EC funds, per event: (**20 k€/event**), are provided to support **organizational costs** and **travel expenses for young researchers and invited speakers**.

Time	Schools	Location	Org.
(9 - 14 Sept 2019)	***Solar spectropolarimetry: From real to virtual observations***	Switzerland (Lugano)	USI/IRSOL
POSTPONED TO 25 - 29 JANUARY 2021 (ON-LINE)	A holistic view of the solar atmosphere – combining space and ground-based observations	UK (MSSL)	MSSL/UCL
POSTPONED to August 30 -September 3, 2021	***High-resolution solar observations***	Austria (Graz)	UNIGRAZ
May 2021 → postponed to APRIL 2022	Solar corona - complex research from ground-base and space	Slovakia (Tatranska-Lomnica)	AISAS
May 2022 → postponed to SEPTEMBER 2022	***Solar atmospheric dynamics - From waves to instabilities and jets***	Hungary (GSO, Gyula)	USFD

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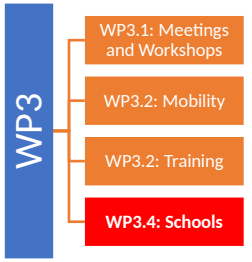
School n.1: Solar spectropolarimetry: From real to virtual observations (Switzerland, USI/IRSOL)



- **Date: 9 – 14 September 2019**

- The School provided an introduction to modern spectropolarimetry, forward modeling, simulations, and virtual observations.
- There were practical sessions, in which the students could work on codes.
- Visits to the observing facilities at IRSOL and the supercomputer facilities at CSCS in Lugano.
- Applications: 31
- Attending students: 25 (6 females, 19 males)
- SOC: Luca Belluzzi, Michele Bianda, Rolf Krause, Maria G.C. Nestola, Renzo Ramelli, Oskar Steiner, Francesca Zuccarello

WP3
WP3.1: Meetings and Workshops
WP3.2: Mobility
WP3.2: Training
WP3.4: Schools

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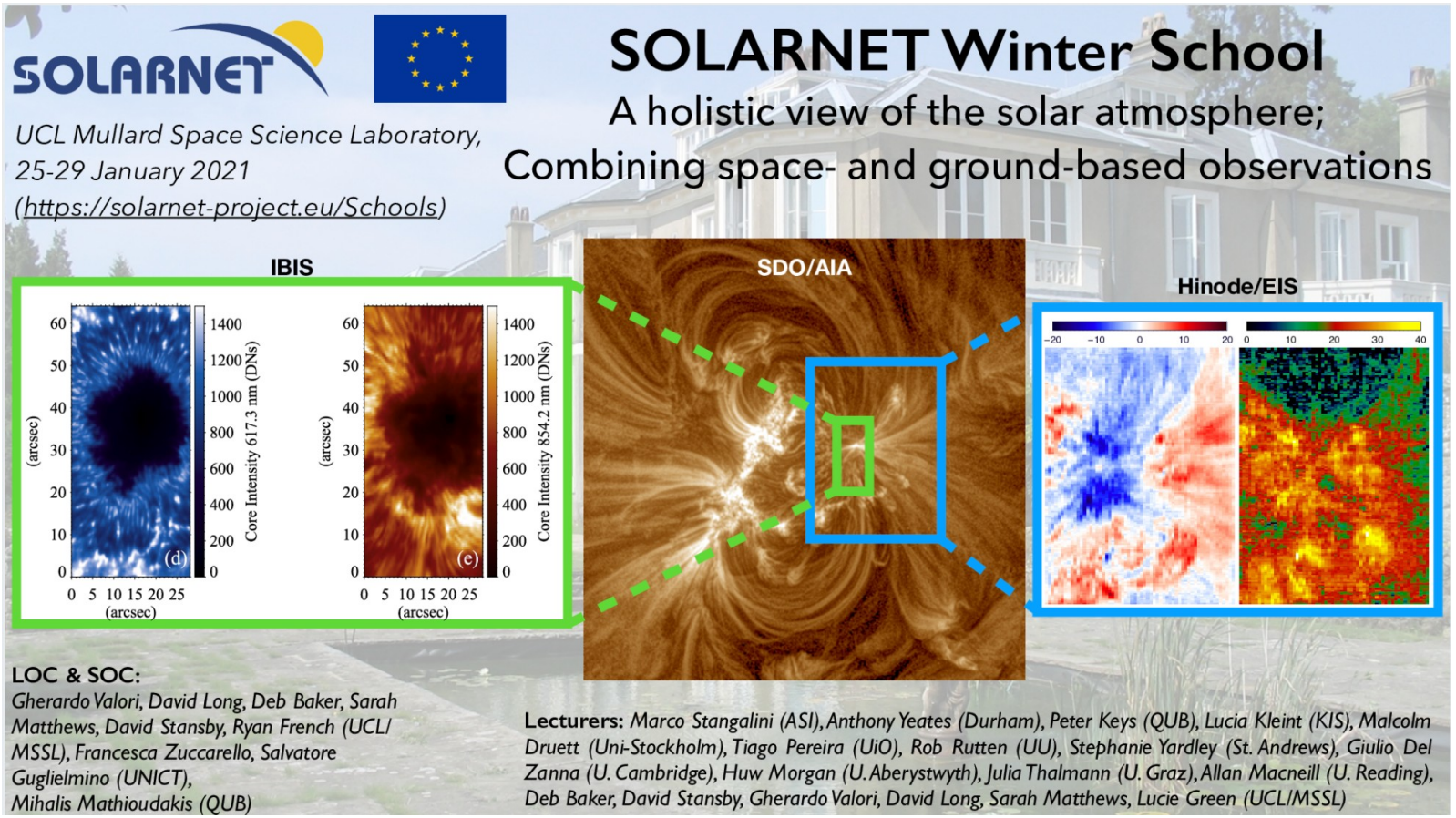
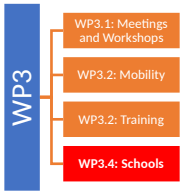
School n.2: "A holistic view of the solar atmosphere – combining space and ground-based observations"

January 25-29, 2021

UCL – Mullard Space Science Laboratory (Dorking, UK) - On-line





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UCL – Mullard Space Science Laboratory (Dorking, UK)

A holistic view of the solar atmosphere – combining space and ground-based observations

Online from MSSL 25th to 29th of January, 2021

Theory and instrumentation | Hands-on session

NB: UK time (UTC+00:00)

Topic	Mon 25 Magnetic field	Tue 26 Optically thick	Wed 27 Optically thin	Thu 28 Connection Science	Fri 29 Obs. Proposal and career
9:30 – 11:00	T1 Magnetic field (GB AO) **Marco Stangalini**	T3 GB opt. thick Halpha **Malcom Druett**	T5 Opt thin & Chianti **Giulio del Zanna**	T7 Low-corona and Helicity **Julia Thalmann**	T9 Write observation proposal **Sarah Matthew**
11:30-13:00	T2 Magnetic field (SB global models) **Anthony Yeates**	T4 SB opt. Thick iris **Tiago Pereira**	T6 Opt thin & Chianti **Giulio del Zanna**	T8 Plasma Connectivity **Allan Macneill**	T10 Career and outreach **Stephanie Yardley Lucie Green**
14:00-15:30	H1 Image reconstruction **Peter Keys**	H3 Analysis of IRIS data **Tiago Pereira**	H5 EIS AIA **Deb Baker** **Andy S. H. To – Ryan French**	H7 Sunpy/Heliopy **David Stansby**	**Evaluation questionnaire** **END**
16:00-17:30	H2 Observing with GREGOR **Lucia Kleint**	H4 AIA-GB alignement **Rob Rutten**	H6 Image processing DEM MGN **Huw Morgan**	H8 SolO coronal models **Gherardo Valori**	

SOC:

- Gherardo Valori
- Sarah Matthews
- Michail Mathioudakis
- Francesca Zuccarello
- David Long
- Deborah Baker

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2nd SOLARNET School (fully on-line): General resources

- **Zoom**

Lectures took place using the Zoom platform, with 4 of the 8 hands-on lectures using the **Zoom 'breakout rooms' feature for group exercises**.

- **SLAC channel** for discussing and sharing information (a place for exchanging information that can build in a more stable discussion forum, i.e., on technical aspects of the hands-on with dedicated channel to IDL and Python).

- **Google folder** with lectures slides and material

- **Wonder room** for off-lecture time (a platmform for online socialization, where users are represent by icons and can chat individually and in group, sharing video and audio).

- **Menti.com** for interactive pools

- **OPINIO** for SOLARNET questionnaire

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School n.2: "A holistic view of the solar atmosphere – combining space and ground-based observations"

January 25-29, 2021

UCL – Mullard Space Science Laboratory (Dorking, UK)

39 applications --> 20 EYR selected + 7 MSSL PhD students

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School n.2: "A holistic view of the solar atmosphere – combining space and ground-based observations"

January 25-29, 2021

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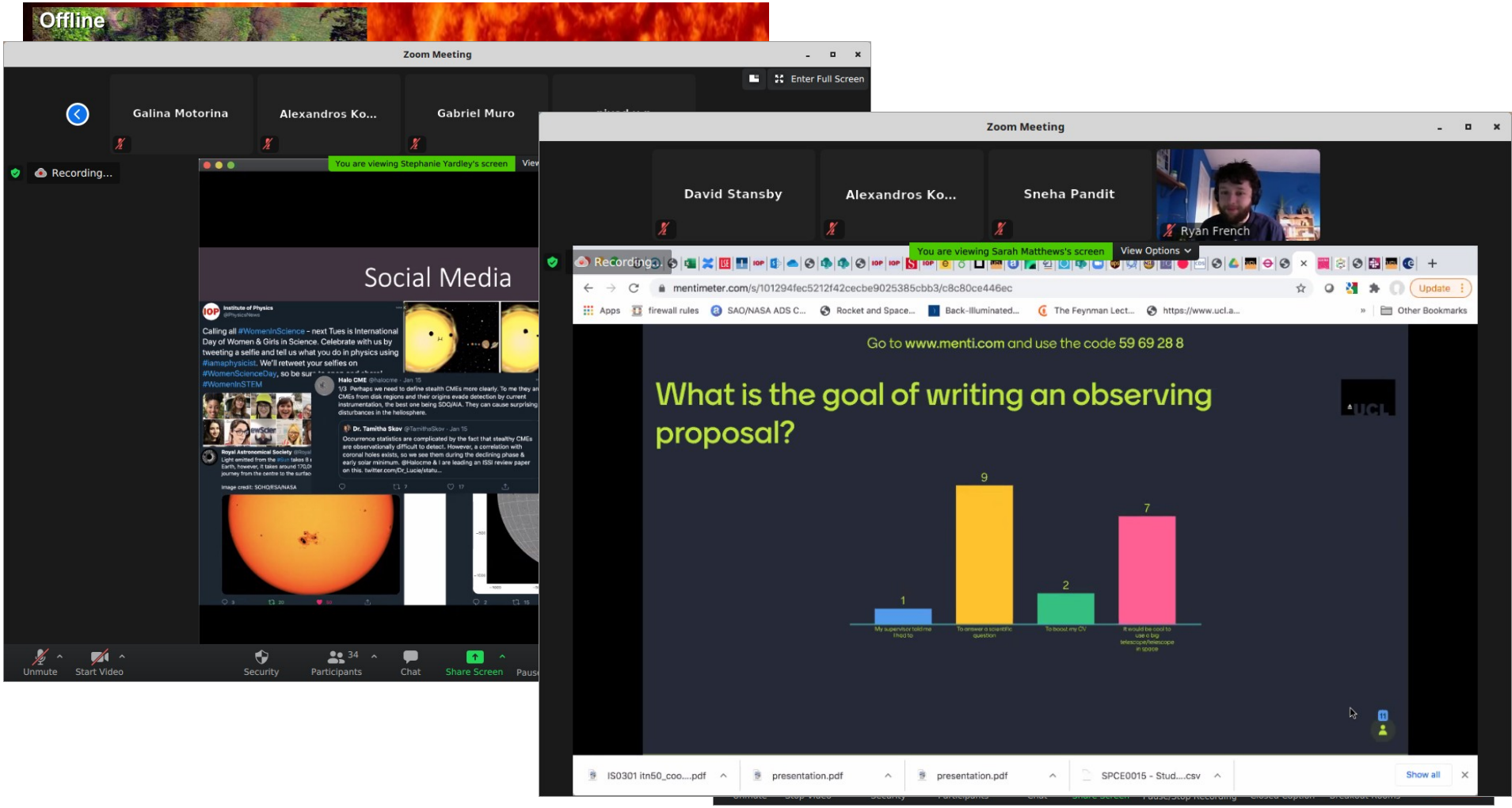

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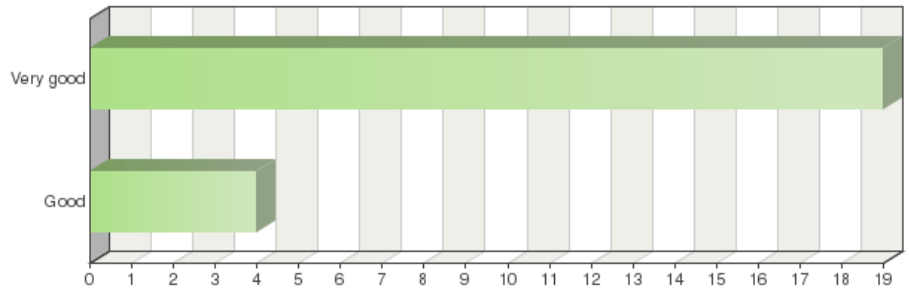
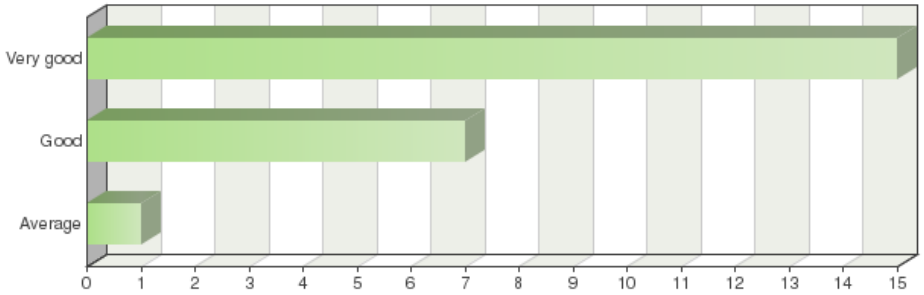
School 2: Results of the Questionnaire (23 answers)

How would you qualify the activities, scientific presentations and discussions at the School/Training?



Has the School/Training contributed to a significant enhancement of your knowledge on the addressed topics?



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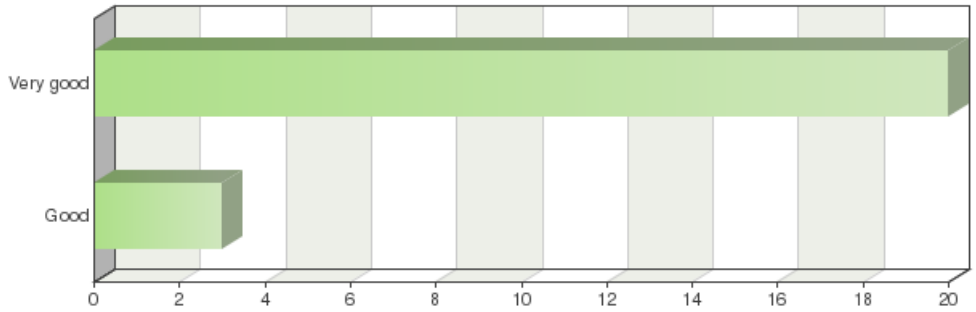
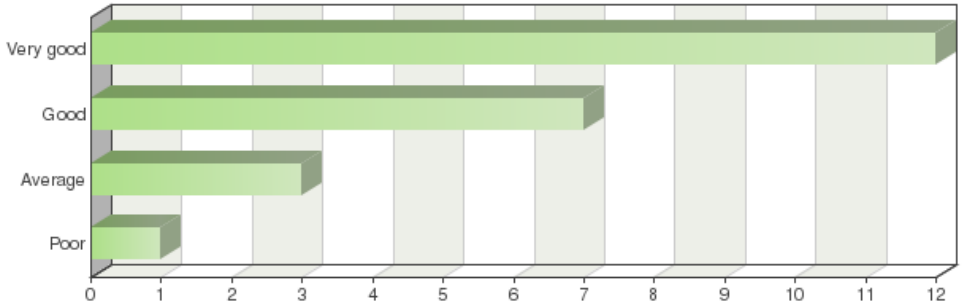
School 2: Results of the Questionnaire (23 answers)

Were the lecturers available to assist students in and out of class?



How would you qualify the Training activities and/or hands-on sessions?



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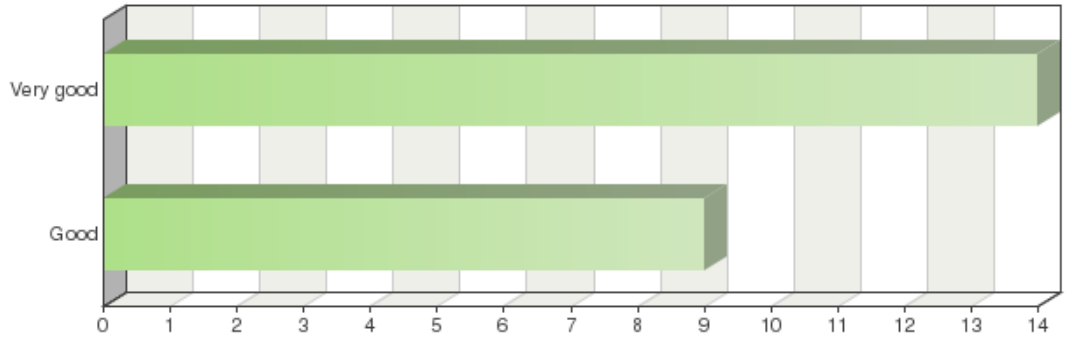
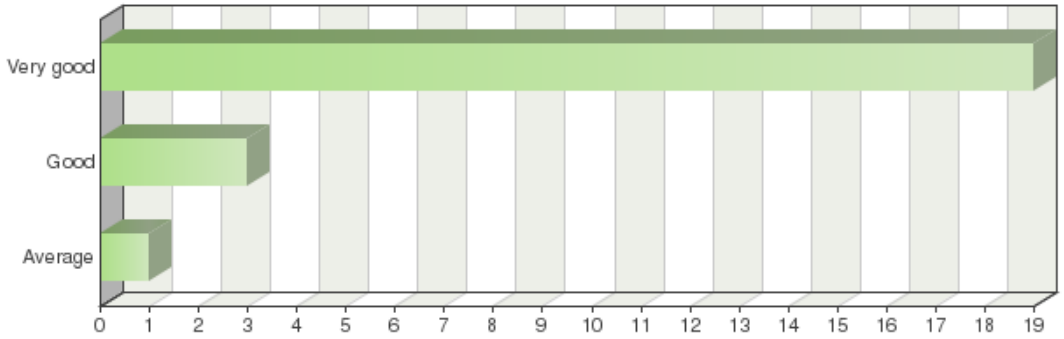
School 2: Results of the Questionnaire (23 answers)

How would you qualify the overall School/Training Programme?



How would you qualify the facilities provided (computers, conference room, Internet connection, etc.)?



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School 2: Results of the Questionnaire (Free comments)

- Despite the difficult conditions, under which it took place, the School was organized very well and I am very grateful that I participated.

- All the **lectures** were very interesting and with recording available, **it is possible to revisit them and examine them in more detail, which I find very useful**.

- I particularly enjoined the Hands-on sessions and possibly I would like to have spent a bit more time on them, specifically in the form of exercises.
- However, **despite the constant encouragement from the organizers/lecturers and the wide availability of resources** (slack, zoom, wonder, etc.) **there was not a lot of engagement of the students among themselves**. Most kept mics and cameras off for the duration of the School and had very little interaction, even in the breakout rooms (where there was no recording).
- Some suggestions: **to partition the exercises** (or the needed info) **among the students of each group to force more interactions**, the **lecturers could ask at the beginning of their talk for participants to open their cameras** (for the ones who did it, seemed to worked), provide some room for interaction (exercises or discussion) that is not recorded but still part of the main program.

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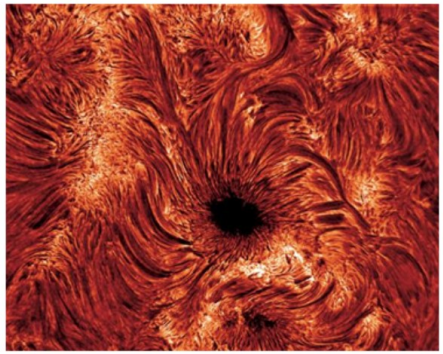
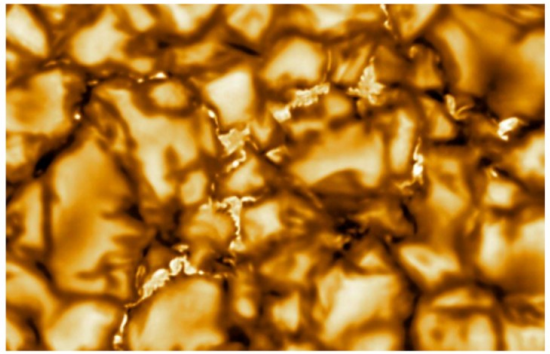
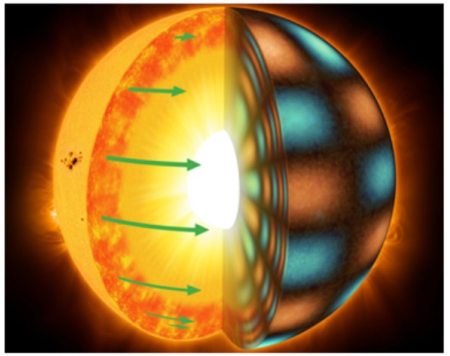
WP3
- WP3.1: Meetings and Workshops
- WP3.2: Mobility
- WP3.2: Training
- WP3.4: Schools

School n.3: "High-resolution solar observations"
August 30 - September 3, 2020
University of Graz (University Campus) (Austria)

SOLARNET Summer School
High Resolution Solar Physics

at Institute of Physics, University of Graz, Aug 30 – Sept 3, 2021, Austria (https://solarnet-project.eu/Schools)

Sponsored by SOLARNET **Grant No 824135** under **European Union's Horizon 2020 research and innovation programme.**

Lecture Topics: Instrumentation for high-resolution solar physics ● High-resolution observations of the solar photosphere ● Spectropolarimetry and the photosphere-chromosphere connection ● Solar oscillations and wave phenomena ● High spatial and spectral observation of stars ● DKIST – A new high-resolution solar telescope

LOC & SOC: Arnold Hanselmeier (Uni Graz), Markus Roth (KIS)

Lecturers: Oskar v. d. Lühe (KIS), Klaus Strassmeier (AIP), David Kuridze (Aberystwyth Uni), Markus Roth (KIS), Ales Kucera (Slovak Academy Sci), Thomas Rimmele (DKIST)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824135.

WP30 Deliverables

Number	Title	Lead	Type	Dissemination level	Due date
D3.3	First report on mobility programme	UNICT	Report	P	June 2020
D3.1	Meeting webpages and on-line proceedings (M1&M2)	UNICT	Websites	P	December 2020 → POSTPONED to Dec 2021
D3.5	First Report on training for solar observers	KIS	R	P	December 2020
D3.7	First Report on schools	UNICT	R	P	December 2020
D3.4	Second report on mobility programme	UNICT	R	P	December 2021
D3.2	Meeting webpages and on-line proceedings (M3&M4)	UNICT	Websites	P	December 2022
D3.6	Second Report on training for solar observers	KIS	R	P	December 2022
D3.8	Second Report on schools	UNICT	R	P	December 2022

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WP30 Milestones

Number	Title	Lead	Due date
MS5	First science meeting	UNICT	June 2020 -> December 2021
MS6	First week above the clouds	KIS	June 2020
MS7	First School on spectro-polarimetry	UNICT	June 2020

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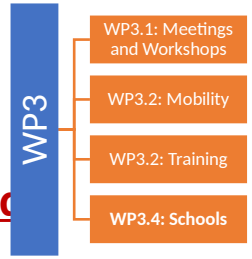
Items to discuss

All the activities of WP3 were impacted by Covid-19 outbreak

- Meetings:
  - New dates and merging of two Meetings (?)
- Mobility
  - Integrate industrial partners in the program
  - Promote exchange between scientific institutions and industry
  - Several stays postponed or interrupted
  - Calls have been suspended
  - New format: virtual mentoring. How to realize it? The MEC could provide some general indications and guidelines
- Training "A week above the Clouds"
  - 2nd and 3rd (?) event cancelled
- Schools
  - 2nd School postponed to January 2021 (held on-line)
  - postponement and new dates for the other Schools



2021

Oggi

Gennaio

L	M	M	G	V	S	D
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Febbraio

L	M	M	G	V	S	D
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
1	2	3	4	5	6	7
8	9	10	11	12	13	14

Marzo

L	M	M	G	V	S	D
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

Aprile

L	M	M	G	V	S	D
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

Maggio

L	M	M	G	V	S	D
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Giugno

L	M	M	G	V	S	D
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

Luglio

L	M	M	G	V	S	D
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Agosto

L	M	M	G	V	S	D
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Settembre

L	M	M	G	V	S	D
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10

Ottobre

L	M	M	G	V	S	D
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

Novembre

L	M	M	G	V	S	D
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
6	7	8	9	10	11	12

Dicembre

L	M	M	G	V	S	D
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

2022

Oggi

Gennaio

L	M	M	G	V	S	D
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
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31	1	2	3	4	5	6

Febbraio

L	M	M	G	V	S	D
31	1	2	3	4	5	6
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	1	2	3	4	5	6
7	8	9	10	11	12	13

Marzo

L	M	M	G	V	S	D
28	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Aprile

L	M	M	G	V	S	D
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Maggio

L	M	M	G	V	S	D
25	26	27	28	29	30	1
2	3	4	5	6	7	8
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
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Giugno

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Luglio

L	M	M	G	V	S	D
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Agosto

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Settembre

L	M	M	G	V	S	D
29	30	31	1	2	3	4
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Novembre

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Dicembre

L	M	M	G	V	S	D
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26	27	28	29	30	31	1
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