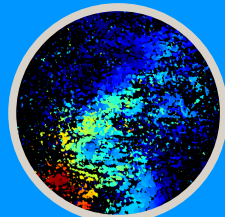
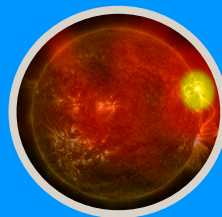
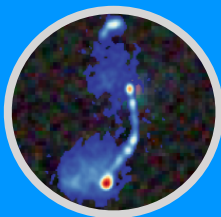
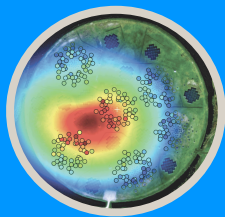


DAY
ONE



6th LOFAR Data School program

March 22, 2021

L=Lecture

D=Lecture with demos

T=Demo with tutorial material included

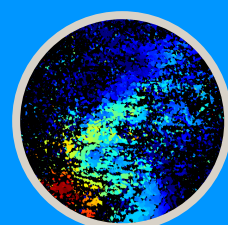
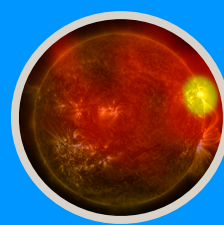
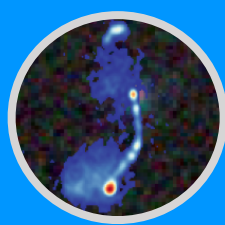
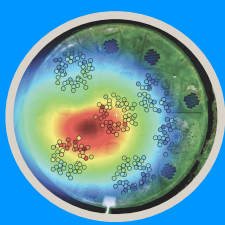
SESSION (plenary chair C. Bassa): Science opportunities & instrument capabilities; telescope/data access [A&O Zoom5](#)

09:00	Welcome and start school (L1)	R. Vermeulen, M. Iacobelli
09:15	Low frequency introduction (L2)	J. McKean
10:05	LOFAR overview pt1 (L3)	M. Brentjens
11:00	Coffee break	
11:20	LOFAR overview pt2 (L4)	M. Brentjens
12:20	Accessing the LOFAR telescope (D1)	E. Orru'
12:55	Lunch	

SESSION (plenary chair T. Shimwell): Systematic (instrumental & external) effects in LOFAR data: inspection & removal [A&O Zoom5](#)

13:55	Removal of instrumental effects: Losoto (T1)	H. Elder
14:45	Removal of ionospheric effects: Rmextract (D2)	M. Mevius
15:30	Coffee break	
15:45	Raw data quality assessment (D3)	T. Franzen
16:15	Q&A	
16:30	Hands-on session: LOSOTO	
17:00	Social event LOFAR QUIZ	LOC
17:30	Program end	

DAY TWO



6th LOFAR Data School program

March 23, 2021

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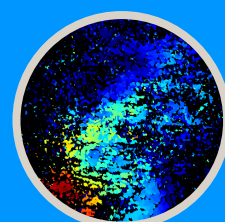
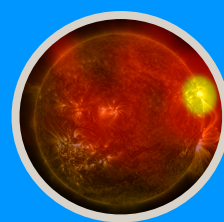
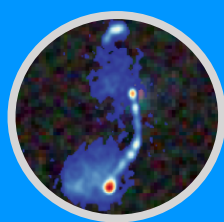
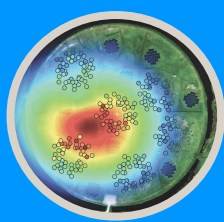
SESSION (plenary chair T. Franzen): **Direction independent processing & wide field imaging** A&O Zoom5

09:05	Direction independent calibration: PreFactor (T2)	A. Drabent
10:05	Quality assessment of calibrated data (D4)	W. Williams
11:05	Coffee break	
11:25	Wide field imaging (T3)	A. Offringa
12:30	Q&A	
13:00	Lunch	

SESSION (plenary chair S. ter Veen): **Beamforming (and Imaging) with LOFAR: observing & processing** A&O Zoom5

14:00	Beamforming with LOFAR (D5)	C. Bassa
14:45	Processing beamformed data: Pulp (T4)	V. Kondratiev
15:45	Coffee break	
15:45	Combining BF&IMG observing modes (D6)	P. Zucca
16:45	Beamformed dynamic spectrum and Imaging (T5)	P. Zucca
17:15	Q&A	
17:30	Program end	

DAY THREE



6th LOFAR Data School program

March 24, 2021

L=Lecture

D=Lecture with demos

T=Demo with tutorial material included

SESSION (parallel chair M. Mevius): **Imaging: Direction dependent Errors**

A&O Zoom 4

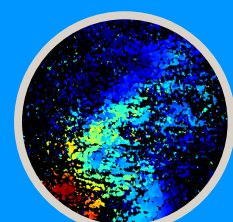
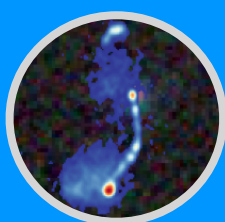
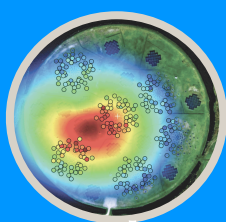
09:00	Factor pipeline (T6)	M. Iacobelli
09:45	DDFacet KillMS pipeline (T7)	E. Bonnassieux
10:15	Coffee break	
10:30	Rapthor pipeline (T8)	D. Rafferty
11:15	Q&A	
11:45	Science Lecture	H. Vedantham
12:45	Lunch	
14:00	Hands-on session IMG: PreFactor / wsclean	
15:30	Q&A	
16:00	Hands-on session IMG: PreFactor / wsclean	

SESSION (parallel chair V. Kondratiev): **Beamforming**

A&O Zoom 3

09:00	Reading BF HDF5 data with Python (T9)	C. Bassa
10:15	Coffee break	
10:30	Plotting the Solar Spectrum (D7)	P.Zucca
11:15	Q&A	
11:45	Science Lecture	H. Vedantham
12:45	Lunch	
14:00	Hands-on session Pulp / dynamic spectrum	
15:30	Q&A	
16:00	Hands-on session Pulp / dynamic spectrum	

DAY
FOUR



6th LOFAR Data School program

March 25, 2021

PL* use [A&O Zoom 5](#)

L=Lecture

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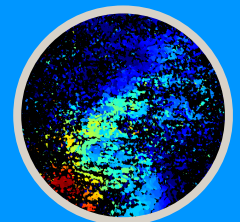
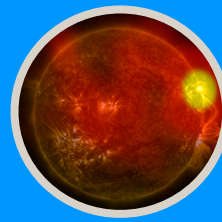
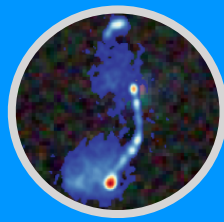
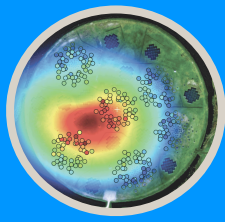
SESSION (parallel chair M. Iacobelli): **Imaging: vlbi & polarimetry** [A&O Zoom 4](#)

09:00	Long baseline calibration (L5)	L. Morabito
10:05	(PL*) Radio polarization measurements with LOFAR (L6)	S. O'Sullivan
10:30	Coffee break	
11:10	Losito (D9)	H. Elder
11:40	(PL*) Exploiting VO & LOFAR (T11)	F. Jimenez-Esteban
12:30	Q&A	
12:45	Lunch	
13:40	Hands-on session: Factor / DDFacet-KillMs / Rapthor	
15:40	(PL*) Apertif (instrument & science overview) (L7)	E. Orru', B. Adams, J. van Leeuwen
16:40	Hands-on session: Factor / DDFacet-KillMs / Rapthor	

SESSION (parallel chair R. Fallows): **Beamforming and TBB** [A&O Zoom 3](#)

09:00	Combining the solar and heliospheric case (L8)	P. Zucca
10:05	(PL*) Radio polarization measurements with LOFAR (L6)	S. O'Sullivan
10:30	Coffee break	
11:10	Observing at ns time resolution with TBB (T10)	S. ter Veen
11:40	(PL*) Exploiting VO & LOFAR (T11)	F. Jimenez-Esteban
12:30	Q&A	
12:45	Lunch	
13:40	Hands-on session TBB	
15:40	(PL*) Apertif (instrument & science overview) (L7)	E. Orru', B. Adams, J. van Leeuwen
16:40	Hands-on session: cont. Pulp / dynamic spectrum	

DAY
FIVE



6th LOFAR Data School program

March 26, 2021

L=Lecture

D=Lecture with demos

T=Demo with tutorial material included

SESSION (plenary chair Y. Grange): **Future perspective & conclusion**

A&O Zoom [5](#)

09:00 Q&A

09:30 LOFAR pipelines & CWL (D10)

M. Mancini

10:30 Low frequency science with LOFAR: future perspective (L9) J. Hessels

11:15 Coffee break

11:45 Q&A session + Questionnaire

13:00 Lunch

14:00 Hands on session VO & LOFAR use case

15:00 Q&A and Concluding remarks

15:30 Program end