18:00 Ice Breaking Event

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## September 4 Monday

Introduction and "inspiring day"

- 9:00 Opening and Welcome Ceremony
- 10:30 IAU and astronomy for developments/education (Nadeem Oozeer, Saeed Jafari)
- 11:00 Break
- 11:30 Importance of radio astronomy (Jack Gallimore)
- 12:15 Introduction to interferometry (George Bendo)
- 13:00 Lunch break
- 15:00 Introduction to VLA (Betsey Adams)
- 15:20 Introduction to MeerKAT (Nadeem Oozeer, Ianja Roger)
- 15:40 Introduction to ALMA (Aida Ahmadi, George Bendo)
- 16:00 Introduction to Very Long Baseline Interferometers (Cristiana Spingola)
- 16:30 Break
- 16:45 Introduction to LOFAR/MWA
- 17:00 Help with software installation
- 18:00 End of the day

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## September 5 Tuesday

Softwares and data archives

- 9:00 Intro to AIPS and data structure (Jack Gallimore)
- 9:30 Intro to CASA and data structure (Aida Ahmadi)
- 10:00 Projects overview, assignments (Fatemeh Tabatabaei)
- 11:00 Break
- 11:30 VLA data archive (Betsey Adams)
- 12:00 MeerKat data archive (Nadeem Oozeer, Ianja Roger)
- 12:30 VLBI data archives (Cristiana Spingola, Jack Gallimore)
- 13:00 Lunch break
- 15:00 EHT data archive (Michael Janssen)
- 15:30 ALMA data archive (Aida Ahmadi)
- 16:00 Break
- 16:45 Help with software and download of datasets
- 18:00 End of the day

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## September 6 Wednesday

Calibration + Continuum tutorial

9:00 Basics of calibration (George Bendo)

9:45 10:30 11:00 11:30 12:00 12:30	Basics of imaging and self-calibration (Cristiana Spingola) MeerKAT data reduction (Nadeem Oozeer) Break Low frequency arrays and public surveys (Giulia Macario) Science with radio continuum (mm/cm, Nadeem Oozeer) Science at low frequencies (Giulia Macario)	
13:00	Lunch break	
15:00	MeerKAT tutorials	
16:30	Break	
16:45	MeerKAT tutorials	
18:00	End of the day	
September 7 Thursday		
HI lectures and tutorial		
9:00	Notes on flagging (Betsey Adams)	
9:30	Continuum subtraction: lecture + tutorial (Adams, Yildiz, Roger)	
11:00	Break	
11:30	Masking and cleaning: lecture + tutorial (Adams, Yildiz, Roger)	
13:00	Lunch break	
15:00	Science with HI (Mustafa Yildiz)	
15:30	Moment maps + SoFIA tutorials (Adams, Yildiz, Roger)	
16:30	Break	
16:45	Moment maps + SoFIA tutorials (Adams, Yildiz, Roger)	
18:00	End of the day	
September 8 Friday Very long baseline interferometry		
9:00	VLBI and general differences with connected interferometers (Cristiana Spingola)	
9:30	VLBI Calibration differences (Jack Galimore)	
10:15	VLBI tutorial (Spingola, Gallimore, Janssen)	
11:00	Break	
11:30	VLBI tutorial (Spingola, Gallimore, Janssen)	
13:00	Lunch break	
15:00	Science with VLBI: Event Horizon Telescope (Michael Janssen)	
15:30	VLBI tutorial (Spingola, Gallimore, Janssen)	
16:30	Break	
16:45	VLBI tutorial (Spingola, Gallimore, Janssen)	
18:00	End of the day	

September 9 Saturday Excursion September 10 Sunday Free day Week 2 September 11 Monday ALMA lectures and tutorials 9:00 Hands-on calibration of ALMA data (Rosita Paladino) 11:00 Break 11:30 Hands-on calibration of ALMA data (Rosita Paladino) 13:00 Lunch break 15:00 ALMA weblog review (George Bendo) 15:30 Mining the ALMA science archive programmatically (Aida Ahmadi) 16:00 Science talk: Photometry Results from the Bright Extragalactic ALMA Redshift Survey (BEARS) (George Bendo) 16:30 Break 16:45 CARTA tutorial (Paladino, Bendo, Ahmadi) 18:00 End of the day September 12 Tuesday EHT lecture and tutorial + projects 9:00 EHT/mm-VLBI data reduction (Michael Janssen) 10:00 EHT and calibration pipeline tutorial (Michael Janssen) 11:00 Break 11:30 EHT imaging tutorial (Michael Janssen) 13:00 Lunch 15:00 Science talk: AGNs with EHT (Violette Impellizzeri) 15:30 Projects 16:00 Break 16:45 Projects 18:00 End of the day September 13 Wednesday ASKAP/radio astronomy in west & central Asia (hybrid) +projects

9:00 ASKAP: design, pipeline, surveys, data access and science highlights (Baerbel Koribalski)

10:15	Radio astronomy in Iran: From ISM to stars, BHs, galaxies and their evolution (Tabatabaei)	
11:00	Break  Patient and the second of Tarkey (Markets & Milita)	
11:30	Radio astronomy in Turkey (Mustafa Yildiz)	
12:15	Radio astronomy in Arab World (Awni Moh'd khasawneh)	
13:00	Lunch break	
15:00	Projects	
16:30	Break	
16:45	Projects	
18:00	End of the day	
September 14 Thursday		
Scienc	e talks + projects	
9:00	Radio Frequency Interference-RFI (Nadeem Oozeer)	
9:30	Probing Axions via Light Circular Polarization and Event Horizon Telescope (Soroush Shokri)	
9:45	Constraining The Kerr Paradigm Through Synchrotron Radiation (Masoumeh Ghasemi-Nodehi)	
10:00	MIGHTEE-COSMOS: Thermal and Non-thermal Emission in Distant Star-Forming Galaxies at 1.5 < z < 5	
(Maryam Khademi)		
10:15	The environments of hyper-compact H II regions (Aruzhan Omar)	
10:30	Radio Recombination Lines As Free-Free Templates in The Galaxy Center (Farideh Mazoochi)	
10:45	A Detailed Study of Radio-IR Correlation in The Magellanic Clouds (MJ Shahhoseini)	
11:00	Break	
11:30	LOFAR LoTSS: Multi-Scale Study of Radio-IR Correlation in Nearby Galaxies (Parvin Howaida)	
11:45	Radio Spectral Energy Distribution of Star Forming Galaxies at z<1.5 (Hossein Hatamnia)	
12:00	Interstellar medium and star formation in NGC 1316 (Haleh Mesgari)	
12:15	Projects	
13:00	Lunch break	
15:00	Projects	
16:30	Break	
16:45	Projects	
18:00	End of the day	
September 15 Friday		
Reports and closing		
9:00	Project presentations (Students)	
11:00	Break	
11:30	Closing remarks	
13:00	Lunch Break	
15:00	Workshop ends	
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