18:00 Ice Breaking Event

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

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

September 6 Wednesday

Calibration + Continuum tutorial

9:00 Basics of calibration (George Bendo)

	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 to m, Nadeem Oozeer) MeerKAT tutorials Lunch break MeerKAT tutorials Break MeerKAT tutorials 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	
Sonton	nhor 9	
September 8 Friday Very long baseline interferometry		
9:00	VLBI and general differences with connected interferometers (Cristiana Spingola)	
9:30 10:15	VLBI Calibration differences (Jack Galimore) VLBI tutorial (Spingola, Gallimore, Janssen)	
11:00	VLBI tutorial (Spingola, Gallimore, Janssen) 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 Excursion 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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