## September 3 Sunday

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, Michael Janssen)
- 16:30 Break
- 16:45 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, lanja 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 Basics of imaging and self-calibration (Cristiana Spingola)

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10:30 MeerKAT data reduction (Nadeem Oozeer)
11:00 Break
11:30 Low frequency arrays and public surveys (Giulia Macario)
12:00 Science with radio continuum (mm/cm, Nadeem Oozeer)
12:30 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
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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 Pala 11:00 Break	dino)	
11:30 Hands-on calibration of ALMA data (Rosita Pala	dino)	
13:00 Lunch break		
<ul> <li>15:00 Science talk (Aida Ahmadi)</li> <li>15:30 ALMA weblog review (George Bendo)</li> <li>16:00 Science talk: Photometry Results from the Bright (George Bendo)</li> <li>16:30 Break</li> <li>16:45 CARTA tutorial (Paladino, Bendo, Ahmadi)</li> <li>18:00 End of the day</li> </ul>	Extragalactic ALMA Redshift Survey (BEARS)	
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 Jan 11:00 Break		
11:30 EHT imaging tutorial (Michael Janssen)		
13:00 Lunch		
15:00 Science talk: AGNs with EHT (Violette Impellizze 15:30 Projects 16:00 Break 16:45 Projects 18:00 End of the day	ri)	
September 13 Wednesday  ASKAP/radio astronomy in west & central Asia (hybrid) +projects		
9:00 ASKAP: design, pipeline, surveys, data access a 10:15 Radio astronomy in Iran: From ISM to stars, BHs	,	

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

15:00 Workshop ends