

### **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  
10:15 Break  
10:45 IAU and astronomy for developments/education (Nadeem Oozeer, Saeed Jafari)  
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 (Giulia Macario)  
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 Basics of imaging and self-calibration (Cristiana Spingola)  
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 to m, Nadeem Oozeer)  
12:30 MeerKAT tutorials (Nadeem Oozeer, Giulia Macario)

13:00 Lunch break

15:00 MeerKAT tutorials (Nadeem Oozeer, Giulia Macario)  
16:30 Break  
16:45 MeerKAT tutorials (Nadeem Oozeer, Giulia Macario)  
18:00 End of the day

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### **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

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### **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 to Cappadocia*

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**September 10 Sunday**

*A tour to City Kayseri*

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**Week 2**

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**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

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**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

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**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  
11:30 Iranian National Observatory (Reza Rezaei)  
11:50 DAG-Eastern Anatolia Observatory (Mustafa Yildiz)  
12:15 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

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### **September 14 Thursday**

*Science 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 TBD  
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

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### **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