

Length	Time (MDT Zone)	Monday (11 Oct 2021)	Tuesday (12 Oct 2021)	Wednesday (13 Oct 2021)	Thursday (14 Oct 2021)
		Session 1A: Spaced-based instruments	Session 2A: Ground-based experiments I	Session 3A: New methods and analysis tools	Session 4A: Cosmological and astrophysical models
		Chairs: Jeff Peterson, Nivedita Mahesh	Chairs: Cynthia Chiang, Saurabh Singh	Chairs: Adrian Liu, Anne Hutter	Chairs: Katie Mack, Sambit Giri
20 min	7:30 - 7:50 AM	Schmidt (SSERVI director): Welcome: Burns (NESS PI): Introduction	Patra : HYPEREION - an experiment to detect the absorption profile in the radio background spectrum at 78 MHz.	McKinley : Global Signal with short-spacing interferometers: effects of mutual coupling	Mittal : Constraining primordial black holes as dark matter using the global 21-cm signal with X-ray heating and excess radio background
20 min	7:50 - 8:10 AM	Burns : Hydrogen Cosmology from the Moon Enabled by NASA Commercial Lunar Payload Services	Pagano : Accounting for uncertainties in the low-frequency radio sky maps in REACH Global 21 cm signal analysis	Tripathi : Extracting the Global 21cm signal from CD/EoR from ground based observations in presence of Ionosphere	Kundu : Cosmic recombination history in light of EDGES measurements of the cosmic dawn 21-cm signal
20 min	8:10 - 8:30 AM	Shi : Measuring 21-cm global signal with a global spectrum experiment on the lunar orbit	Mertens : Exploring the Cosmic Dawn with the NenuFAR radio telescope	Chatterjee : CosmoReionMC: A package for estimating cosmological and astrophysical parameters using CMB, Lyman- α absorption and global 21 cm	Qin : The EDGES signal implies strong heating from early star formation
		10-min break	10-min break	10-min break	10-min break
20 min	8:40 - 9:00 AM	Rao : PRATUSH : A proposed lunar orbiter to detect the global redshifted 21-cm signal from Cosmic Dawn and Epoch of Reionization	Razavi-Ghods : Sparrow : A novel data-acquisition platform for radio cosmology experiments	Shimabukuro : Recovering 21cm global signal from 21cm power spectrum with ANN	Bera : Impact of cosmic ray heating on global 21-cm signal during cosmic dawn
20 min	9:00 - 9:20 AM	Wu : 21cm global spectrum measurement on the lunar orbit and its ground testing	Spinelli : Chasing the Cosmic Dawn with LEDA	Bevins : globalemu: Novel and robust global 21-cm signal emulation	Sreedhar : Impact of Galaxy Formation on 21-cm Global Signal
20 min	9:20 - 9:40 AM	Hegedus : Latest Developments of the 21-cm Imaging Pipeline for the FARSIDE Array	Peterson : The High-Z All-Sky Spectrometer	Farhat : Antenna measurement and characterisation processing techniques using unmanned aerial vehicles	Mishra : Constraint on the dissipative dark matter using EDGES anomaly
20 min	9:40 - 10:00 AM	Discussion	Discussion	Discussion	Discussion
		60-min break	60-min break	60-min break	60-min break
		Session 1B: Signal modeling	Session 2B: Ground-based experiments II	Session 3B: Systematics characterization	Session 4B: Ground-based experiments III and data analyses
		Chairs: Jonathan Pritchard, Thomas Gessey-Jones	Chairs: Nima Razavi-Ghods, Marta Spinelli	Chairs: Jacqueline Hewitt, Steven Murray	Chair: Jon Sievers
20 min	11:00 - 11:20 AM	Iliev : Testing the properties of reionization sources and dark matter with 21-cm observations	Rogers : Tests of the automated calibration accuracy of EDGES-3	Anstey : Constraining Foreground Models Using Time- and Antenna-Dependent Data	Nhan : Cosmic Twilight Polarimeter - Upgrade status and systematics study
20 min	11:20 - 11:40 AM	Giri : Imprints of mixed dark matter in the 21-cm signal	Singh : SARAS 3: A precision radiometer for observations of cosmic dawn via 21-cm signal	Sievers : Beam Chromaticity, Gaussian Random Fields, and the Search for Cosmic Dawn	Hendricksen : From Lab to Field: Progress and Continued Efforts for MIST
20 min	11:40 - 12:00 PM	Muñoz : The impact of molecular-cooling galaxies on the global signal	Salviatto Zago : PRIZM: Overview and Progress Report	Pessoa : Soil characterization for the MIST experiment	Rapetti : Constructing a Complete Data Analysis Pipeline to Efficiently Account for Comprehensive Systematics and Signal Modeling
20 min	12:00 - 12:20 PM	Barkana : 21-cm predictions from novel astrophysical effects	Monsalve : Status of the MIST 21-cm Experiment	Singal : How Bright is the Radio Sky? A 310 MHz Absolute Map	Begin : Probing reionization with joint 21cm and kSZ constraints
		10-min break	10-min break	10-min break	10-min break
20 min	12:30 - 12:50 PM	Gessey-Jones : Probing the First Stars with 21cm Cosmology	Menard : ALBATROS: Autonomous low-frequency observations from the Eye of Québec	Sims : An analytic model for data with beam factor-based chromaticity correction	DiLullo : Searching for Global 21 cm Absorption Signal with the Long Wavelength Array
20 min	12:50 - 1:10 PM	Hibbard : Warm Dark Matter, Pop III stars, and the Global 21-cm Signal	Mahesh : Testing the EDGES-analysis pipeline with the EDGES Lowband-1 data	Bye : Simulated Observations of the Radio Sky Spectrum with MIST	Bye (on behalf of Ewall-Wice) : The Electromagnetically Isolated Global Signal Estimation Platform (EIGSEP)
20 min	1:10 - 1:30 PM	Driskell : Self Consistent Modeling of Dark Matter-Baryon Scattering Impact on the Global Signal	Murray : An Update on the Progress of EDGES	Bassett : Quantifying the Effect of Local Topography on Global 21-cm Cosmology Data Analysis	Discussion : Conclusions, instruments overview and future prospects
20 min	1:30 - 1:50 PM	Discussion	Discussion	Discussion	SOC Summary Panel
35 min	1:50 - 2:25 PM	Posters I	Posters II		

Posters I	Posters II
Zhang: On measuring the 21cm global spectrum of cosmic dawn with interferometer array	Montero-Camacho: Extracting the astrophysics of reionization from the Lyman-alpha forest power spectrum: a first forecast
Hutter: Tracing the ionization topology with the 21cm bispectrum	Murmu: Impact of light-cone effect on the CII and HI 21-cm intensity mapping signal statistics from the EoR
Kamran: Probing IGM physics during Cosmic Dawn using the Redshifted 21-cm Bispectrum	Kennedy: Characterizing soil-variable beam chromaticity effects on global signal measurements with the MIST antenna
Pathak: Using the Largest Cluster Statistics on 21-cm map to constrain reionization models	Y. Zhou: The Dependency of CNN on Simulation Models when Interpreting 21cm Singles
	Lucero: Characterization of the soil conductivity profile using the Schlumberger method for MIST