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<td>The next generation EHT: future directions for ground and space</td>
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<td>Geoff Crew, MIT Haystack Observatory</td>
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<td>New science with the ALMA phasing system</td>
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<td>Sandra G. Bustamante Gonzalez &amp; Aleksandar PopStefanija, University of Massachusetts-Amherst</td>
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<td>Wideband array Roach-enabled spectrometer</td>
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<td>Philip Engelke, OH as an Alternate Tracer for Molecular Gas</td>
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<td>Jacqueline Girouard, Institute of Scientific Research at Boston College (ISR)</td>
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<td>Using the Kepler full frame images to find long-period variables in the Milky Way</td>
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<td>Sanjeev Mehta &amp; Sean Freeman, University of Massachusetts-Lowell</td>
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<td>SPACE HAUC: A undergraduate CubeSat mission to demonstrate high bandwidth communication using a X-band phased-array</td>
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<td>Juno radio occultations of the Io plasma torus</td>
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<td>Cole Tamburri, Boston College</td>
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<td>A new empirical model for ionospheric total electron content</td>
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<td>Paul Withers, Boston University</td>
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<td>Radio occultation observations of plasma across the solar system</td>
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<td>GNSS applications to ionospheric disturbance studies</td>
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PROGRAM OF PRESENTATIONS

9:30 Colin Lonsdale and Anthea Coster, MIT Haystack Observatory
   Introduction

9:40 Ivan Galkin, University of Massachusetts–Lowell
   * Active radiowave plasma experiments: multi-nation
   and spaceborne projects at UML

9:55 Emil Atz, Boston University
   Combining in-situ, optical and remote sensing observations
   to study magnetic reconnection

10:10 Brian Walsh, Boston University
   Lunar environment heliospheric x-ray imager

10:25 Longzhi Gan, Boston University
   Nonlinear interactions between radiation belt electrons
   and chorus waves: dependence on wave amplitude modulation

10:40 Coffee

10:55 Larisa Goncharenko, MIT Haystack Observatory
   Observations of pole-to-pole, stratosphere-to-ionosphere connection

11:10 Lindsay Goodwin, Boston University
   Characterizing substorm triggered tongues of ionization
   using SuperDARN and TEC observations

11:25 Sebastijan Mrak, Boston University
   GPS scintillation at middle latitudes

11:40 Julia Tilles, University of New Hampshire
   Broadband radio interferometer observations of fast electrical
   processes in thunderstorms

11:55 Dhiman Mondal, MIT Haystack Observatory
   Improved space geodesy through advanced technology
   and techniques

12:10 Evan Thomas, Dartmouth College
   Remote sensing of Arctic sea ice using the Super Dual Auroral
   Radar Network

12:25 Lunch

1:05 Tours & poster presentations

1:50 Josh Semeter, Boston University
   On the sources of highly structured airglow in the sub-auroral
   ionosphere

2:05 Catherine Espaillat, Boston University
   Revealing the star–disk–jet connection using multiwavelength
   variability

2:35 Robert Guter Guth, University of Massachusetts–Amherst
   The present and future of Milky Way star formation science
   with LMT/GTM

3:05 Glen Petitpas, Harvard–Smithsonian Center for Astrophysics
   Resolving the interstellar medium in nearby galaxies

3:35 Coffee

3:50 Vincent Fish, MIT Haystack Observatory
   Imaging black holes with the Event Horizon Telescope

4:20 Maciek Wielgus, Harvard–Smithsonian Center for Astrophysics
   Event Horizon Telescope — the expansion plans

4:35 Kotaro Moriyama, MIT Haystack Observatory
   Black hole spin measurement based on time-domain VLBI
   observations of infalling gas cloud

4:50 John Barrett, MIT Haystack Observatory
   EDGES-3: towards a complementary observation
   of the Epoch of Reionization

5:05 Calvin Leung, MIT Kavli Institute
   Triggered VLBI with the CHIME/FRB baseband recording

5:20 Reception

* = Invited institutional overview
† = Invited presentation

(Posters listed on next page)