

XXXIInd International Union of Radio Science

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CALL FOR PAPERS

Commissions HJ

Solar, Planetary, and Heliospheric Radio Emissions

Paper submission deadline: January 30th, 2017

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Commissions HJ - “Solar, Planetary, and Heliospheric Radio Emissions”

Conveners: P. Galopeau, G. Mann, H. O. Rucker, Y. Yan, S. White, T. Bastian

The Sun, solar system magnetized planets, and the heliosphere are sources of intense non-thermal radio emissions. Thus solar system radio astronomy and plasma physics provide most important tools that complement those of other space- or ground-based observations in Gamma rays, X-rays, EUV/UV, and the visible, etc., for understanding these non-thermal processes and energetic particles occurring in solar bursts and their influence from the solar surface to heliospheric space. New generation or upgraded radio telescopes, either solar-dedicated or non-solar-dedicated, have (will) come into use, including ALMA, E-OVSA, EVLA, GMRT, LOFAR, MUSER, and MWA, as well as the Ukrainian radio telescopes UTR-2, URAN, and GURT, the radio spectrometers aboard Stereo spacecraft, and the future SKA. These instruments provide new possibilities to measure the non-thermal radiation in an unprecedented way and open new windows for a better understanding of the radio emission processes in space (with applications to astrophysical objects, like supernovae remnants or active galactic nuclei). They also provide diagnostic tools for extrasolar planets, since these processes are the same basic plasma processes in space. Complementary studies are highly welcome including analysis from spaceborne experiments (e.g. Cassini, Galileo,

Ulysses, Wind, Juno), laboratory and experimental studies, theoretical investigations devoted to the generation mechanisms and particle acceleration processes, and preparatory studies of forthcoming space missions (such as Bepi-Colombo and JUICE). Resonance, Solar Orbiter, Solar Probe, Taranis). This session will provide an important platform for solar radio astronomers, plasma physicists, planetary scientists, astrophysicists, and radio scientists to communicate and discuss a wide range of interesting and exciting topics, including the recent progress of radio observations of the Sun, solar wind, and planets, spacecraft measurements, data processing, theories, new technologies, and beyond.

Patrick Galopeau