Wednesday 11 JUNE

Morning

08:45 Welcome
09:15 Introductory words
09:30 A brief history of the PRE series of workshops

SUN & HELIOSPHERE (Chairs : D. Morosan, C. Briand)

09:45 I. Jebaraj (invited)
[25+5'] A Golden Age for Solar Radio Science Below the Cutoff: Discoveries from Parker Solar Probe and Solar Orbiter

10:15 C. Krafft
[12+3'] wave radiation in turbulent magnetized and inhomogeneous plasmas : theory and simulations

10:30 P Theptong
Characterization of Fluctuations in Solar Type III Radio Spectra Observed by PSP and SolO

10:45 Break

11:15 K Deshpande
First imaging evidence of fundamental-harmonic type III radio burst pair in the interplanetary space

11:30 C. Briand
Decameter spikes to diagnose the solar corona

11:45 D. Morosan
Resolving spatial and temporal shock structures using LOFAR observations of type II radio bursts

12:00 S. Normo
Investigating the origins of three acceleration episodes during a weak solar eruption accompanied by type II radio bursts

12:15 A. Koval
Radio observations of spectral cleaving feature in solar type II bursts

12:30 K. Bandari
Comprehensive study of type II radio bursts and the properties of the associated shock waves

12:45 Lunch

Afternoon

13:45 E. Hudisic
Modelling Gyrosynchrotron Emission from Energetic Electrons in CME Flux Ropes

14:00 O. Ulyanov
Diagnostics of the solar wind using pulsars radio emission

14:15 K. Pesini
Solar Radio Burst Tracker – A Citizen Science Campaign for Identifying Type III Solar Radio Bursts

14:30 V. Krupar (remote)
Exploring Interplanetary Type III Radio Bursts as Proxies for Flare-Site Reconnection

JUPITER (Chairs : M. Imai, Y. Martos)

14:45 W. Kurth (invited, remote)
[25+5'] Jupiter Radio Emissions from Juno and Support Observations

15:15 H. Jacôme (remote)
[12+3'] Variation in Jovian Decametric radio emissions' characteristics due to Earth's declination changes

15:30 Break

POSTERS (Chair : C. Louis)

16:30 Ligthning poster session (1 slide/1' each)
17:00 Poster session

18:30 Team picture and cocktail/Ice breaker

Thursday 12 JUNE

Morning

JUPITER (Chairs : M. Imai, Y. Martos)

09:00 D. Santos-Costa
[12+3'] Addressing the complexity of Jupiter's radio spectrum from multi-interferometric observations at 0.05-10 GHz

09:15 J. Girard
Detecting the Jovian synchrotron emission at very low frequencies using NenuFAR

09:30 S. Ye
Unveiling Magnetospheric Dynamics of Giant Planets: Recent Insights from Radio Emission and Magnetic Field Perturbation Studies

09:45 Y. Martos
Jupiter's magnetic field and its relation with generation and control of decameter radiation observed by Juno

10:00 M. Imai
Jupiter's Io-related radio fine structures as observed from Juno

10:15 B. Collet
In situ analysis of Jupiter's broadband kilometric auroral radio emissions with Juno

10:30 A. Boudouma
Propagation mode and sources location of the Jovian narrowband radiations from 3D numerical modeling of Juno/Waves observations

10:45 Break

EARTH AND SATURN (Chair : D. Pisa)

11:15 J. Waters
[12+3'] AKR Observations From All Local Times Indicate Substorm Activity

11:30 A. Fogg
Diurnal periodicity in Earth's radio emissions

11:45 P. Teysseyre
Ionospheric D-region temporal response to solar forcing

12:00 U. Taubenschuss
Direction finding for Saturn Drifting Burst emissions

12:15 G. Fischer
Partial polarization and propagation of Saturn kilometric radiation at low and very low frequencies

12:30 A. Lecacheux
Saturnian Kilometric Radiation properties from Cassini's "Grande Finale"

12:45 Lunch

Afternoon

SOCIAL EVENT

14:30-23:00 Visit of Marseille + Conference dinner (departure from and return to the Vieux Port)

FRIDAY 13 JUNE

Morning

INSTRUMENTATION (Chair : U. Taubenschuss)

09:00 P. Zarka (invited)
[25+5'] Ground-based perspective of PRE radioastronomy, from historical observations to modern giant facilities

09:30 J.-E. Wahlund (invited)
[25+5'] The Radio & Plasma Wave Investigation (RPWI) for the JUpiter ICy moons Explorer (JUICE)

10:00 E. Rouillé
[12+3'] Observation of low-frequency planetary radio emissions with an orbiting interferometer

10:15 B. Cecconi
EXTRACT/TASKA: towards a digital computing platform for modern radio astronomy

10:30 E. Mauduit
Real-time detection of Solar and Jovian radio bursts with NenuFAR: advancing astrophysical data mining with the EXTRACT project

10:45 Break

SPACE WEATHER (Chair : J. Waters)

11:15 J. Magdalenic (invited)
[25+5'] Recents advances on solar radio monitoring and space weather

11:45 M. Bröse
[12+3'] Ground-based radio observations of space weather events with optimized CALLISTO stations

12:00 M. Knapp
The Space Weather Impacts on Planetary Emissions (SWIPE) mission concept: an observatory for Solar System radio aurorae

12:15 M. Rutala (remote)
Forecasting the Outer Heliosphere Solar Wind using Gas Giant Radio Aurorae

12:30 Lunch

Afternoon

EXOPLANETS, BROWN DWARVES AND STARS (Chairs : G. Fischer, J. Turner)

13:30 M. Kao (invited)
[25+5'] Radio Emission as a Tool for Studies of Ultracool Dwarfs and Star-Planet Interactions

14:00 J. B. C. Oliver
[12+3'] A new window into cool dwarf's magnetospheres: radiation belts and beyond

14:15 R. Kavanagh
An ultracool bridge to exoplanet magnetic fields

14:30 C.-M. Cordun
Expanding the search of radio exoplanets with LOFAR

14:45 L. Peña-Moñino
Exploring Habitability and Radio Emission in Proxima b's Space Weather Environment

15:00 X. Zhang
Probing Exoplanetary Magnetospheres at Low Radio Frequencies with NenuFAR

15:15 Break

15:45 J. Turner
Extensive follow-up observations of the Tau Bootis exoplanetary system with NenuFAR

16:00 P. Zarka
Location and energy of electrons producing the radio bursts from AD Leo observed by FAST in December 2021

16:15 C. Louis
Methods and results of low-frequency beamformed exoplanet detection studies with NenuFAR

16:30 Q. Duchêne
Improving exoplanetary radio emissions predictions using stellar magnetic field measurements' compilation and inference

16:45 M. Perez-Torres (remote)
SIRIO: A public open Python code to predict radio emission from star-planet interaction

17:00 The PREX SOC Concluding words and next PRE

LIST OF POSTERS

EARTH

E1 S. Wu et al., Aurora Kilometric Radiation and Aurora: Observations from Polar

E2 S. Wu et al., Radio emissions reveal Alfvénic activity and electron acceleration prior to substorm onset

E3 S. Wu et al., Spatial distribution and plasmaspheric ducting of auroral kilometric radiation revealed by Wind, Polar and Arase

E4 S. Walker et al., Properties of Auroral Kilometric Radiation

SATURN

S1 B. Collet & L. Lamy, A reanalysis of Cassini's SKR source crossings

S2 C. Jackman et al., Low Frequency Extensions of Cyclotron Maser Instability-Generated Radio Emission: A Statistical View of Low Frequency Extensions from Cassini at Saturn

S3 R. Desmont et al., Statistical study of the Saturnian Kilometric Radiations (SKR) from Cassini's observations

S4 D. Pisa et al., Tracing Source Regions of Saturn Drifting Bursts

JUPITER

J1 G. Fischer et al., Influence of the Galilean moons on Jupiter's broadband kilometric radiation

J2 C. Louis et al., Do Galilean moons influence Jovian radio emissions in the kilometer range ?

J3 C. Louis et al., Study of the Evolution of the Periodicity of Jovian Decametric Emissions Over 30 Years Using Data from the Nançay Decameter Array

J4 A. Boudouma et al., Geometrical and Local-Time Distribution of Broadband Kilometric Radiation from the Extended Juno/Waves Catalog of Jovian Radio Emissions

J5 H. Kita et al., Results from a 2024-2025 Observation campaign of Jupiter's radiation belts using GMRT and single dish telescopes

J6 O. Smirnov, M. Ivchenko et al., MeerKAT observations of Jupiter

J7 P. Garnier et al., Statistical analysis of Jovian decametric radio emissions occurence drivers

J8 G. Litvinenko et al., Study of unusual spectral features on multi-scale spectra of the Jovian decameter emission

J9 C. Fournier et al., Extensive study of Jovian decametric fine structures with the Nançay Decameter Array

JUV1 B. Benmahi et al., Probing the 3D structure of Jovian auroras using Juno-UVS observations

JUV2 S. Satoh et al., Plasma conditions at the orbits of Io, Europa, and Ganymede derived from the lead angle of the satellite auroral footprints observed by Juno-UVS

JUV3 V. Hue et al., Refining Equatorial Lead Angles of Jupiter's Moons using Juno-UVS

JUV4 C. Pit et al., Probing the energy of Jovian auroral electrons with HST/STIS through the brightness ratio method

SOLAR

Sol1 I. Jebaraj et al., A Weakly Turbulent and Intermittent Plasma: Insights from Parker Solar Probe

SPACE WEATHER

SW1 A. Stanislavsky et al., NenuFAR Observations of Scintillation During High Solar Activity

EXOPLANETS, BROWN DWARVES AND STARS

E1 H. Kita et al., Attempts to detect auroral radio emissions from Beta Pictoris b using the ionospheric correction pipeline

E2 A. Satyagraha et al., Development of Analytical Model Generalized for Exoplanetary Auroral Radio Emission

E3 L. Lamy & P. Zarka, Search for exoplanets at radio wavelengths : validity of predictions

E4 L. Lamy et al., A wideband search for nearby Star-Planet systems and Ultracool dwarves with FAST, NenuFAR and the NRT

E5 L. Peña-Moñino et al., Exploring Magnetic Star-Planet Interactions in GJ 486 Using Radio Observations

INSTRUMENTATION

I1 O. Ulyanov et al., Usage of the Solar Energy for the Solar Radio Observations with Mobile Antenna Array

I2 J. Girard et al., Automated reduction of Solar, planetary and transient interferometric data with the EXTRACT workflow orchestration tool

I3 E. Rouillé et al., OASyS: A Simulation Framework for Orbiting Low-Frequency Radio Interferometers

I4 E. Rouillé et al., Autonomous Attitude Determination on a Radio Interferometric Swarm

I5 M. Imai et al., Compact Low-Frequency Radio Observatory LWA-Niyodo in Japan

I6 S. Aicardi & B. Cecconi, Deep learning on jovian decametric emissions

I7 B. Cecconi et al., MASER: an Astronomy Open Science Pilot within the OSTrails project

I8 H. Kita et al., Low-frequency VLBI observation with Iitate, Zao, and Toyokawa observatory

I9 Y. Kasaba et al., Radio instrument of Radio and Plasma Wave Instruments (RPWI) aboard ESA JUICE: from the Launch (2023), via the Lunar-Earth flyby (2024), toward Venus (2025)