

Detection and measurement of RFI in radio astronomy

Yebes Observatory, 8-9 June, 2017

Agenda

Day 8-June-2017

8:30 Bus departure from Guadalajara to Yebes Observatory.

9:00 Arrival and registration.

9:30 Workshop Opening and Logistics.
José A. López-Pérez (IGN).

9:40 Welcome and Yebes Observatory introduction.
José A. López-Fernández (Yebes Observatory Director, IGN).

Session 1 : Local RFI environments **Chairman: Reinhard Keller.**

10:00 The INAF RFI group: recent results in spectrum management & monitoring.
Pietro Bolli (INAF, Arcetri Observatory, Italy).

10:30 RFI measurements at the 65m Tianma Telescope.
Bin Li (Shanghai Astronomical Observatory, China).

11:00 Coffee Break.

11:30 RFI measurements in the framework of BRAND-EVN project.
José A. López-Pérez (Yebes Observatory, Spain).

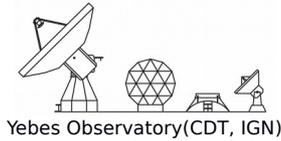
12:00 RFI Survey for the Thai 40-m Radio Telescope.
Phrudth Jaroenjittichai (NARIT, Thailand).

12:30 RFI Measurements at the Argentine Institute of Radioastronomy I.A.R.
Guillermo Gancio (IAR, Argentina).

13:00 Lunch Break.

Session 2: RFI surveys and mitigation **Chairman: Jose A. López-Pérez**

14:00 An evaluation of local interferences in the 0-3 GHz band. A case study in Meco (Spain).
Pablo Lopez-Espí (UAH, Spain).



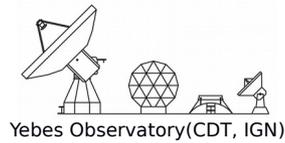
- 14:30 Radio Environment of NSRT and RFI Mitigation.
Qi Liu (Xinjiang Astronomical Observatory, China).
- 15:00 Wideband RFI mitigation.
Jan-Willem W. Steeb (Stellenbosch University, South Africa).
- 15:30 Coffee Break.
- 16:00 ESAC RFI Survey in the SMOS 1400-1427MHz Passive Band.
Ekhi Uranga (ESAC, ESA, Spain).
- 16:30 RFI measurements with Yebes VGOS broad-band receiver
Pablo García (Yebes Observatory, Spain).
- 17:00 Visit to the 40-meter radio telescope.
- 18:30 Bus departure to Guadalajara.
- 20:15 Meeting point for social dinner.
Hotel Alcarria, C/ Toledo 39, Guadalajara.
- 20:30 Social dinner at restaurant.

Day 9-June-2017

- 8:30 Bus departure from Guadalajara to Yebes Observatory.

Session 3: RFI management **Chairman: Pietro Bolli**

- 9:00 Spectrum management for Radio astronomy in Europe and beyond.
Talayah Hezareh (CRAF, Germany).
- 9:30 RFI Protection Activities in IAA RAS.
Aleksey Tsaruk (Institute of Applied Astronomy, Russia).
- 10:00 An RFI Mitigation Project at the Italian Radio Telescopes
Giampaolo Serra (INAF, Astronomical Observatory of Cagliari, Italy).
- 10:30 RFI mitigation tests conducted at GGAO.
Lawrence M. Hilliard (NASA, USA).
- 11:00 Coffee Break.
- 11:30 High Temperature Superconductor microwave filters for the Sardinia
Radio Telescope.
Sergio Mariotti (INAF-IRA, Bologna Observatory, Italy).



Session 4: Hardware for RFI detection

Chairman: Jose A. López-Pérez

12:00 Effective solutions for detection and measurement of RF & uW spectrum using Real-time Spectrum analyzer solution.
Andrew Benn (Keysight Technologies).

12:30 Industry solutions for RFI monitoring, detection and location.
Thomas Krenz (Rohde-Schwarz).

13:00 Lunch Break.

Session 5: Yebes RFI portable equipment tutorial

Speaker: José A. López-Pérez

14:00 RFI equipment tutorial. RFI measurement demo.

16:00 Coffee Break.

16:30 Workshop closure.

17:00 Bus departure to Guadalajara.