Observatorio Astronómico Nacional – Yebes

Status report

13th Working Meeting on European VLBI for Geodesy and Astrometry

Viechtach, February 12th 1999

- OAN–Yebes has successfully become a network station in the International VLBI Service for Geodesy and Astrometry (IVS). Associate IVS members are Jesús Gómez–González (OAN director), Paco Colomer, Pablo de-Vicente, and Maria Rioja.
- The new MK IV system arrived in january and is now being installed. We will resume our participation in the EVN and geodetic campaigns, stopped since the failure of our VLBA formatter more than a year ago.
- A new PC has been installed to control the MK IV terminal. The system now runs the Field System version 9.3.25 on Debian 2.0rb1 (kernel 2.0.34) Linux.
- OAN has purchased 45 thin tapes, 30 of which have already been sent to the EVN pool for astronomical VLBI observations.
- The construction of a 22 GHz receiver continues, and is expected to be installed at the 14 meter telescope by the end of 1999.
- The design study of a new 40 meter radiotelescope by MAN GHH GmbH to be placed at Yebes has been completed. Works on the telescope foundation and pedestal will start before the summer of 1999.

Table 1: Available receivers at the Yebes 13.7–m radiotelescope

Band	Tunable range (GHz)	Bandwidth (MHz)	SEFD[a] (Jy)	Pol	Rec[b]
Q	41.0 – 49.0	400	4160	LCP	CS
S	2.21 – 2.35	140	3800	RCP	HEMT
X	8.13 – 8.63	500	3300	RCP	HEMT

[a] All numbers include radome effects.
[b] Receiver: CS = Schottky diode. HEMT = High Electron Mobility Transistor amplifier. All cooled to 20 K.

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