

Noto station

G. Tuccari
16/01/2014

1) Antenna and receivers:

The mechanical parts for the frequency agility installation in the antenna are ready and will be transferred to the Noto site in the beginning of 2014. The installation is planned after the first EVN session 2014, when the company specialized for this type of operations will be available to visit Noto.

The two receivers operating in the range 80-100 GHz for the secondary focus and purchased from IRAM will not be installed for now in antenna because of lack of funds. Indeed a dedicated tertiary mirror for properly focusing the beam is necessary so as the replacement of the existing secondary mirror. Waiting for the proper financing one of such receivers will be adapted for measuring the atmospheric transparency, with the help of a small antenna and a pointing structure, providing that could be realized with the existing resources a dedicated local oscillator.

2) H-Maser:

The new maser has been installed in October, while the old EFOS-5 has been modified to be maintained still active in parallel with the new one. Additional equipment is going to be installed in order to have a continuous comparison between the two atomic clocks.

3) eVLBI:

The connection at 10Gbps was activated in October 2013.

4) DBBC:

The DBBC system is now active as main VLBI backend even if the system is still not fully complete for VLBI2010. A full implementation is expected in the next months. The autumn EVN session is observed with this terminal only. The Ethernet interface FILA10G is now available, so having available the 10G connection, 4 and 8 Gbps e-VLBI experiments are today possible with Noto.