

Noto station status report

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Antenna

The Enhanced Single-dish Control System, developed in Medicina, has been successfully tested and used for some VLBI experiment. The system will be definitely used by the next EVN session.

Receivers

The Noto antenna can at the moment observe at the frequencies of 2.3,5,6,8.4 and 22 GHz. This 22 GHz receiver is at the moment under revision due to LNA problems. Hopefully it will come back up by the next session. The SXL receiver on primary focus has been redesigned and is under construction. It would be ready by the end of 2018. We are still working to bring back the 43 GHz.

VLBI back-end

DBBC firmware version is currently DDC V105_1 and V105_1E, PFB v16.

FiLa10G firmware version 4.1.

Field System version is 9.11.18.

The FlexBuff unit is at present the main recording system.

T&F

A frequency counter/timer Keysight mod. 53230A has been purchased and installed. It handle the control of the instrument, the acquisition of measures, the generation of the archive files and their transfer to a local disk and at the Bologna server.

RFI

The first measurement of the 300MHz - 18GHz spectrum was produced for the evaluation of the frequency bands assigned to Radioastronomy.

It is planned to complete the measures at finer resolution within March.

A software platform for plotting collected data oriented to the visualization of the Radioastronomy bands is being developed.

We are slowly moving towards a complete automation of the system

acquisition that allows to carry out the long work of acquiring the spectra as easily as possible.