

# Fast Fourier Transform Spectrometer (XFFTS)

The Fast Fourier Transform Spectrometer (XFFTS) for Effelsberg is available for observations since late 2011. The backend has 32768 channels in each of the two IF inputs so that for 2 channel receivers both polarisations can be sampled and processed in parallel.

Currently the following modes are available:

Bandwidth	Spectral channels	Effective Spectral Resolution [kHz]	IF
500	32768	17.7	VLBA-IF
100	32768	3.5	VLBA-IF / Narrow-Band-IF
50	65536	0.8	Narrow-Band-IF - special mode
2000	32768	70.8	Special Broad-Band-IF - currently not available

**Note, that the effective bandwidths are about 10% smaller due to bandpass issues!**

From:

<https://eff100mwiki.mpifr-bonn.mpg.de/> - Effelsberg 100m Teleskop

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