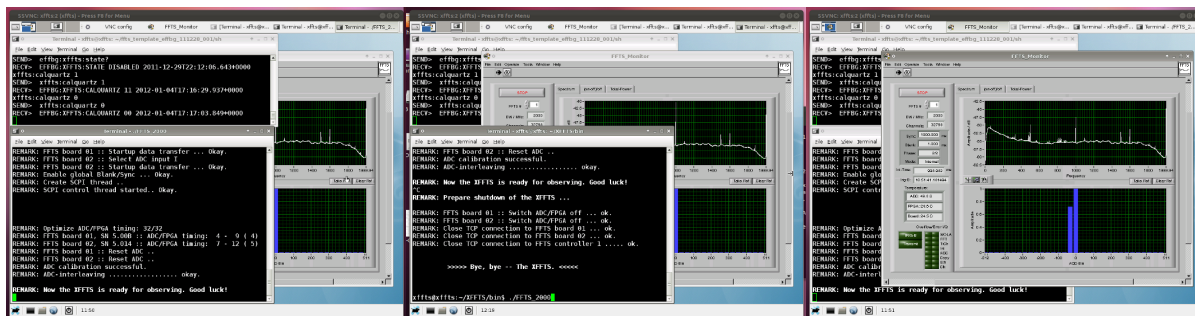


XFFTS Configuration

1. Loading a spectroscopy core on the XFFTS backend PC



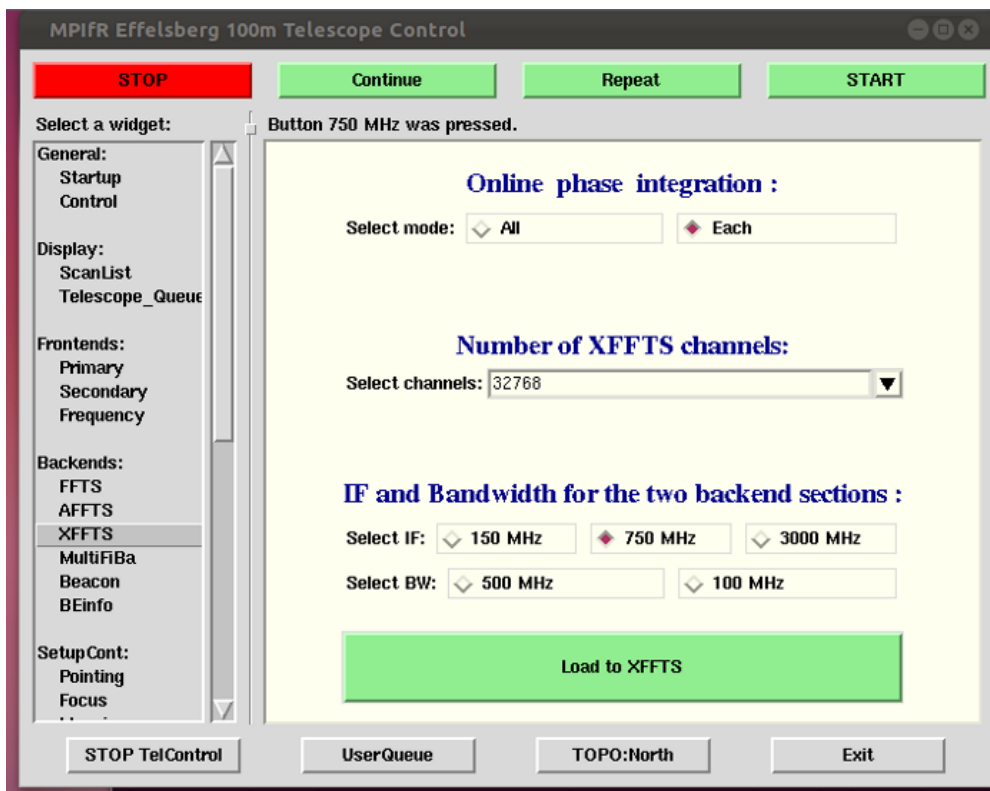
Left: running core. Middle: start new kernel. Right: the (X)FFTS monitor.

- Log on to the XFFTS PC via VNC (xffts:2 or 134.104.70.40:2).
- Check whether a core is already running. If not (or if unsure) just restart it using

```
./startXFFTS
```

Note: Loading the correct core is usually done by local staff.

2. Obsinp



XFFTS configuration using Obsinp.

If the XFFTS core was restarted or one needs another bandwidth, one has to send a configure command to the XFFTS using the Obsinp software. Just go to **Backends->XFFTS**, choose the correct

IF and Bandwidth and click **Load to XFFTS**.

3. Set the correct MultiFiBa Mode and level the XFFTS


This can be done with the graphical software

xfftsGUI

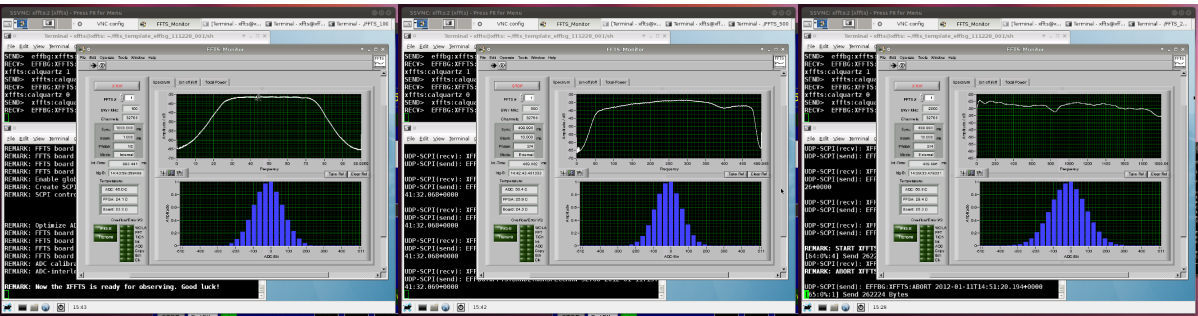
which runs on the observer2. It regularly queries the current bandwidths, multiFiBa modes, etc. Using spin boxes, the user can easily change attenuation values to ensure proper leveling of the XFFTS (noise histograms should be Gaussian-like and not extend beyond the edges). Furthermore, one can use xfftsGUI to send a calibrate command to the XFFTS (see here for more information about calibration of the ADC). **Note, that the xfftsGUI will only work if a spectroscopy core is running on the XFFTS.**

You may want to have a look at the page about [Signal paths to the spectroscopic and pulsar backends](#) for background information regarding the MultiFiBa, especially how to choose the correct **MultiFiBa Mode**. The most common MultiFiBa modes are

Mode	Channels	IF name	IF range	Bandwidth	Attenuation	Comments
			[MHz]	[MHz]	enabled	
097	8+16	VLBA IF	700-800	100	yes	
185	8+16	VLBA IF	500-1000	500	yes	
128	8+16	Narrowband (SB)	100-200	100	yes	
033	8+16	Optical	0-2500	2500	no	used for UBB/new K-band

 Using the xfftsGUI software, it is easy to level the XFFTS and choose correct multiFiBa modes.

4. Checking bandpass shapes



The XFFTS Monitor (on the xffts vnc) should be used to check the bandpass shapes. The figure shows an example of the 1.3-cm receiver for different bandwidth. At least the general shape should be similar for other receivers. Left: 100 MHz. Middle: 500 MHz. Right: 2 GHz.

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