

re07b

| | |
|--------------------|--|
| Description | RadioAstron/LBA Vela pulsar observations |
| Antennas | Mp-Pa-At-Hh-Ho |
| Start | 139 09:00:00 |
| Stop | 139 11:30:00 |
| PI | Yuri Kovalev |

Setup ra18cm2:

| | |
|----------------------|--|
| Station Modes | Mp Pa At Ho |
| Channel 1 | IFP#1-L0 1644 - 1660 MHz LSB RCP |
| Channel 2 | IFP#1-HI 1660 - 1676 MHz USB RCP |
| Channel 3 | IFP#2-L0 1644 - 1660 MHz LSB LCP |
| Channel 4 | IFP#2-HI 1660 - 1676 MHz USB LCP |
| DAS 1 Skyfreq | 1660 MHz |
| Bandwidth | 16 MHz |
| DAS Mode | 16mhz_ul (telescope) |
| Station Modes | Hh |
| Channel 1 | 1644 - 1660 MHz LSB RCP |
| Channel 2 | 1660 - 1676 MHz USB RCP |
| Channel 3 | 1644 - 1660 MHz LSB LCP |
| Channel 4 | 1660 - 1676 MHz USB LCP |
| Bandwidth | 16 MHz |
| DAS Mode | Mark5 |

Ftp: <ftp://ftp.atnf.csiro.au/pub/people/vlbi/radioastron/re07b>

Comments:

NOTE NOTE NOTE NOTE

This is a non-standard setup including

- USB/LSB DAS profile
- **Turn noise cal off**
- **Turn DAS Gain loop off**
- Turn phasecal off if present

Disabling Noise Cal

ATCA: type "set diode off" in caobs

Mopra: In attest under "noiscl", select "LSNoise" to off . (to confirm with Tasso)

Parkes: pkmc → “Cal Control Unit” → select current Rx on matrix and set to “off”

Disabling Noise Cal (ATNF DAS GUI)

- Adjust external attenuation so that the IF level is approx mid band
- Select “Details” under “Monitor View”
- Monitor the “Level” value for IFP#1 and IFP#2 and estimate a time averaged value (Tid only needs to worry about one IFP)
- Record the two average level values

- Under “Config Sftw” select “Filters -> Band Splitter”
- Set “Gain Control” to Manual for both IFP (in the lower right region under “Statistics”)
- Set the two Gain levels to $4*(255-Level)$ where level is the value to measured above
- Click the “Config Hdw” button

- On the “Details Monitor view” display check the Level is ~ 128
- Adjust the attenuation if the level wanders away too much from 128 - each number is ~ 0.1dB.
- Monitor VLBI sampler statistics stay around nominal 17.3%/32.7%

Observing comments for each antenna:

| | | | | |
|----|----|----|----|----|
| Mp | Pa | At | Hh | Ho |
|----|----|----|----|----|

Observing Logs

[Parkes onsource flagging](#)

[ATCA onsource flagging](#)

[Mopra onsource flagging](#)

[Mopra Tsys \(plot\)](#)

[Parkes Tsys](#)

Weather

[ATCA Weather](#)

[Mopra Weather](#)

[Parkes Weather](#)

Monica log information - EXPERIMENTAL:

[Mopra Tsys](#)

[Parkes Tsys](#)

ATCA Tsys

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