

Tutorial 2

Flagging

Flagging

Weeding out the bad data

- Antennas
- Scans
- Time stamps
- Spectral channels
- Baselines
- Radio Frequency Inteference (RFI)

Identifying bad data

- Science, but also an *ART*
- Astronomical sources – smoothly varying across physically sensible parameters (time, frequency, uv) (*exceptions – variable sources and spectral lines*)

Be suspicious of ...

Signals which jump in time, frequency

Signals which change with instrumental boundaries – antennas, baselines, scans, spectral channels, ...

The first (and sometimes) the last integration times in every scan

Any exceptionally short scans!

What to look at

Amplitudes easiest to catch big issues with

Phases are usually much more sensitive to noise and errors, but looking at phases really works only for high SNR data sets

Useful tasks

For identifying what to flag (+ some flagging)

plotms

viewer (casaviewer)

For actual flagging

Tflagdata