Black Board Self Calibration Progress -> Continued

V. N. Pandey, Joris van Zwieten CS1 meeting, ASTRON Aug 28, 2007

### **Outline - Recap**

- (1) Recap BBS Detailed checks on Simulated data
- BBS Checks on CS1 Data & Comparison with MeqTree solutions BBS - First Image
- **3** Not Presenting deep images-> next week
- **4** BBS Status/Processing Different Versions, their status
- 5 RFI /Deep RFI Flagging MMSE
- 6 Conclusions Next Step

# BBS-Image - 1 (62MHz)

- MS1810, SB19
- Channel 10-240 (BW 240 KHz)
- Time used 7.5 hrs (from start)
- *uvw* during solv
- CasA and CygA subtracted, corrected-> CasA
- Tycho (114 Jy)
- other sources
- very preliminary analysis



## BBS-Image -2 (59.9MHz)

- MS1810, SB18
- Channel 10-240 (BW 240 KHz)
- Time used 7.5 hrs (from start)
- *uvw* during solv
- CasA and CygA subtracted, corrected-> CasA
  orrected-> CasA
  orrected
- Tycho (110 Jy)
- other sources
- very preliminary analysis



# **BBS** Progress

- BBS Versions
  - -> Native

-> customised to run for having smaller solve domains, passing of soln (about 1 hr for 16hr data file, 1 min integration, 10itr, 256 channel)

- -> Distributed Version
- -> Distributed Version with Beam (Sarod's Analytical Beam)
- BBS Pipeline

-> Flag Autocorrs, bad channels, uv range clipping, amplitude clipping

- -> create sky model and instrument model
- -> Configuration/parset files for BBS running
- -> plot tools to inspect solutions, port them as text files
- -> image it



### **Conclusions - Dates**

- We verified all four BBS stages predict, solve, correct and subtract on simulated data. Our comparison of BBS solution with MeqTree solutions match.
- Distribution Version being checked/Beam implementation.
- Pipeline under construction -> should be ready in 2 weeks
- Deep Images -> will present it next week
- •Optimal flagging!! (important in reducing mis-interpretaion!) Going on