

**CSIRO Astronomy Space Science** (CSIRO Astronomy Space Science, postdoc)

**Presentation Requested:** poster

**Category:** Other

**Question:** Other

## **The Australia Telescope Compact Array Broad-band Backend**

We describe the Compact Array Broad-band Backend (CABB) and present first results obtained with the Australia Telescope Compact Array (ATCA). Given the dramatic increase of ATCA capabilities in all bands (ranging from 1.1 to 105 GHz), CABB enables scientific projects that were not previously feasible, such as simultaneous observations of multiple spectral lines, on-the-fly mapping, fast follow-up of radio transients and maser observation at high-velocity resolution and full polarisation.