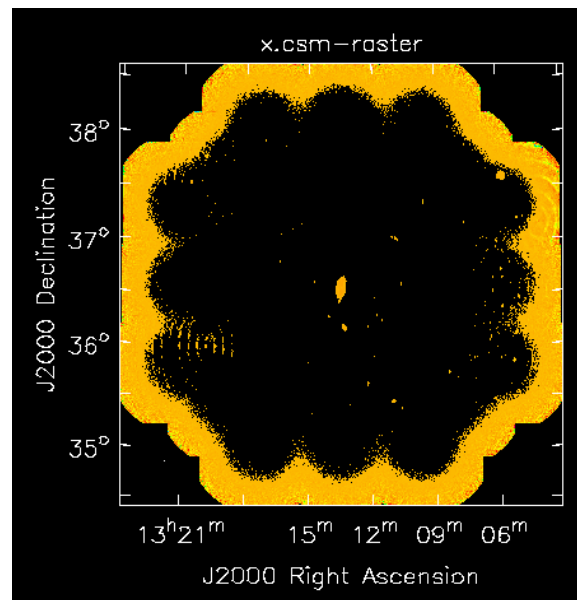


Peter Teuben

ADMIT: automatically detecting HI in large data cubes



"The HI/Story of the Nearby Universe" (Groningen/Dwingeloo 11 Sep 2018)

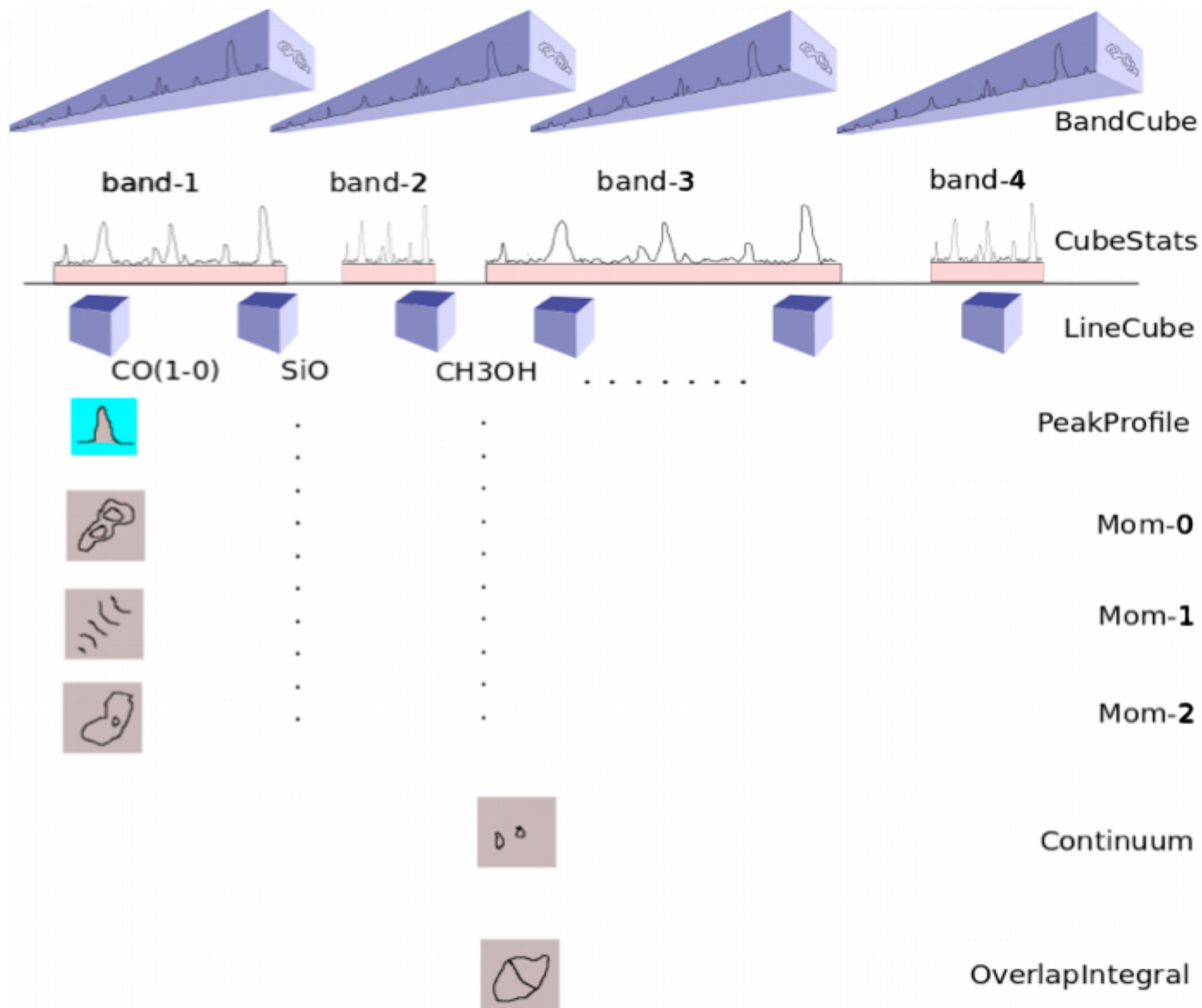
- **ADMIT** for ALMA / WSRT / ...

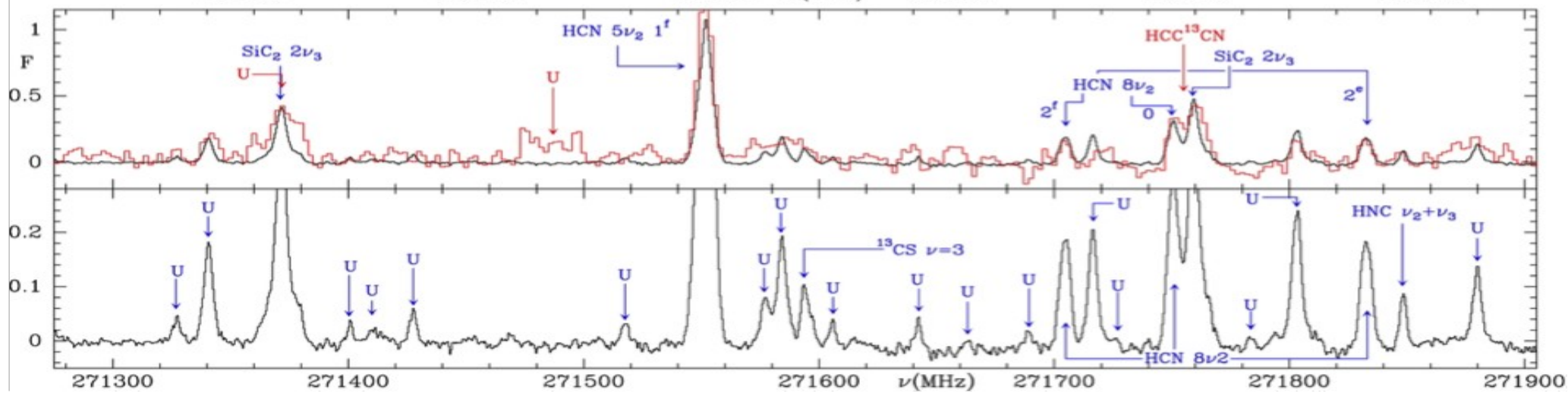
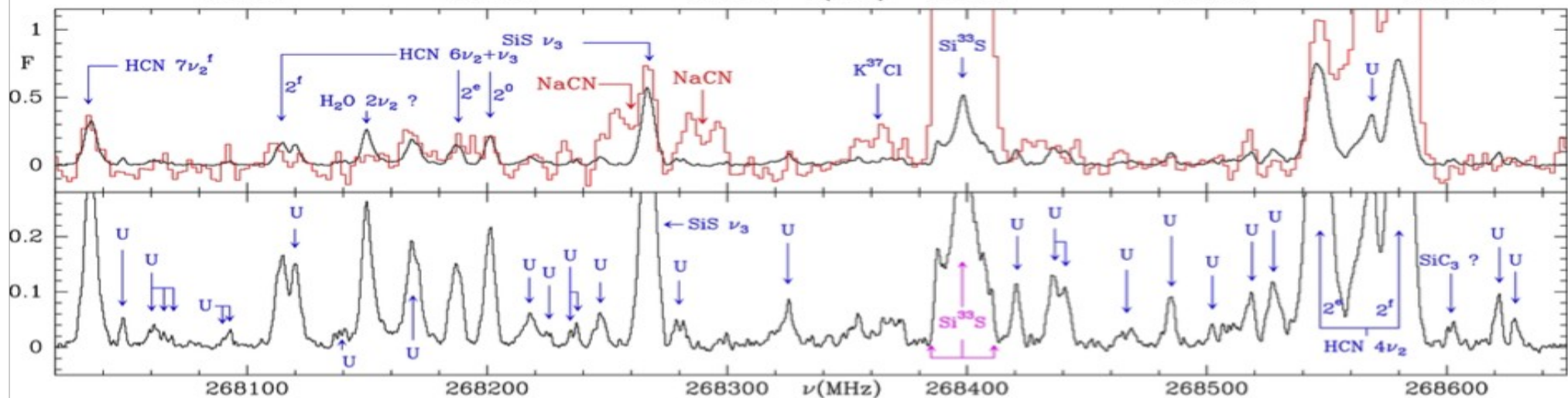
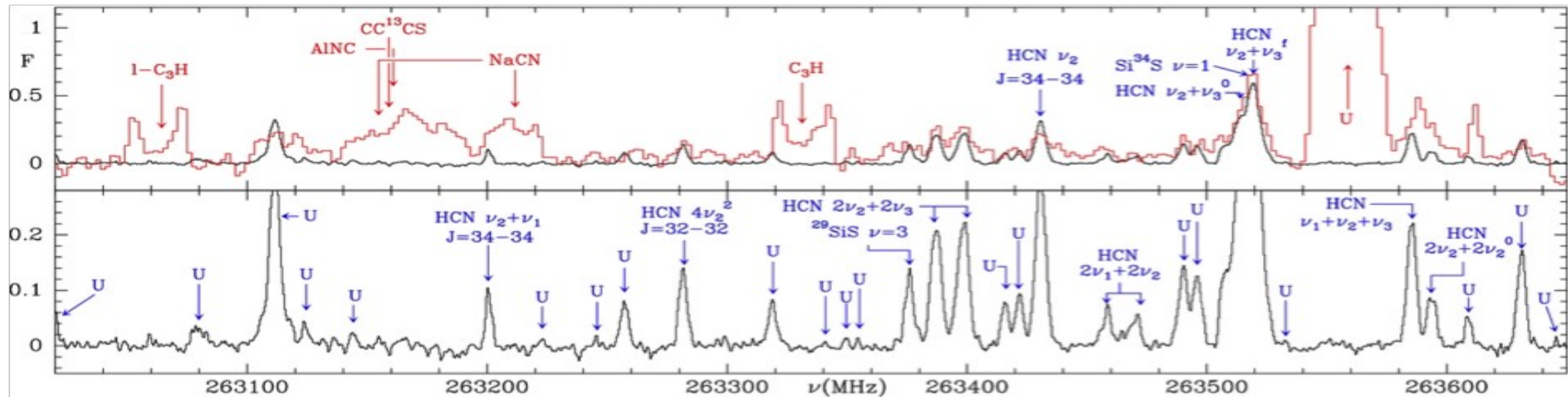
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- **Short Spacing** problem for Interferometers
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 - ngVLA simulations:
 - Short Baseline Array vs. Total Power Dish?

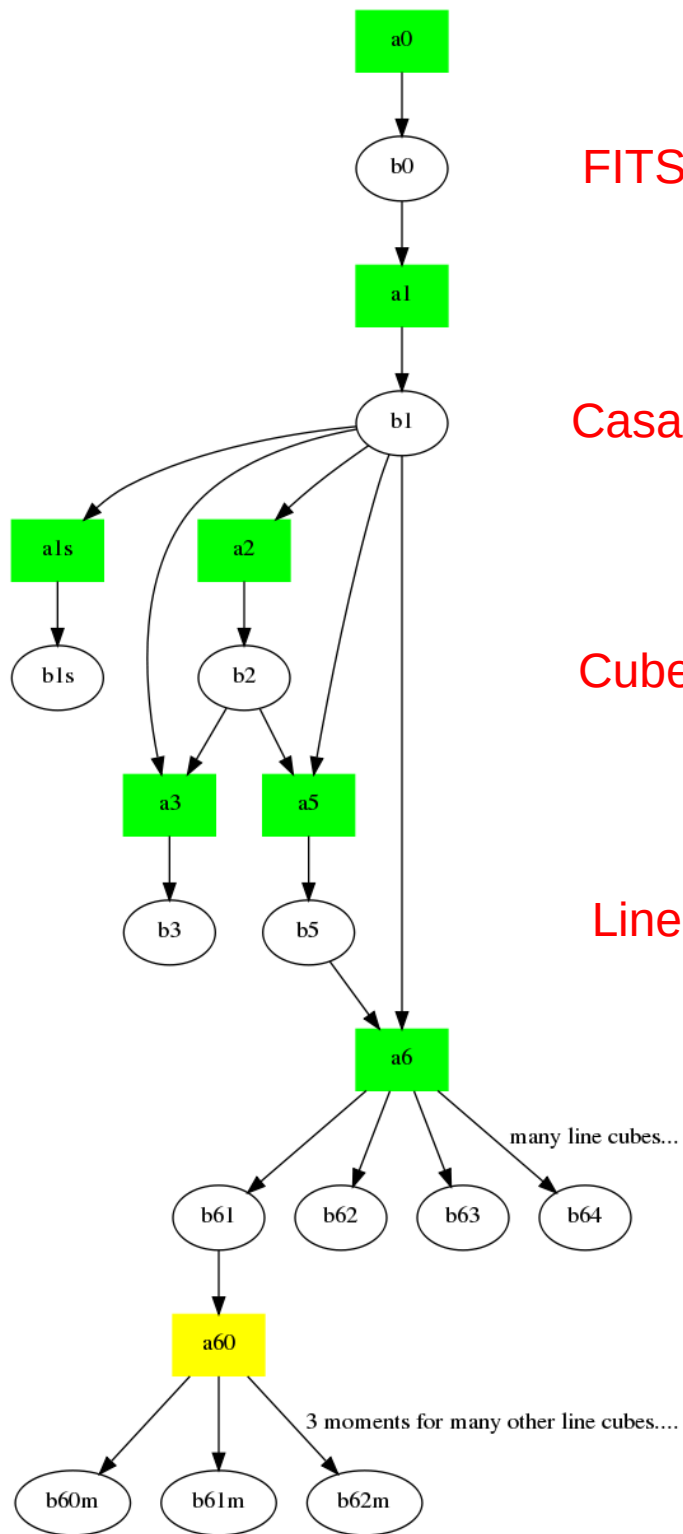
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 - Short Baseline Array vs. Total Power Dish?
- **ASCL.net** (Astrophysics Source Code Library)
- **ADASS**
 - 2018 in Maryland: Nov 11-15 (deadline Oct 8)
 - 2019 in Groningen: Oct 6-10









FITS

Casalmage

CubeStats

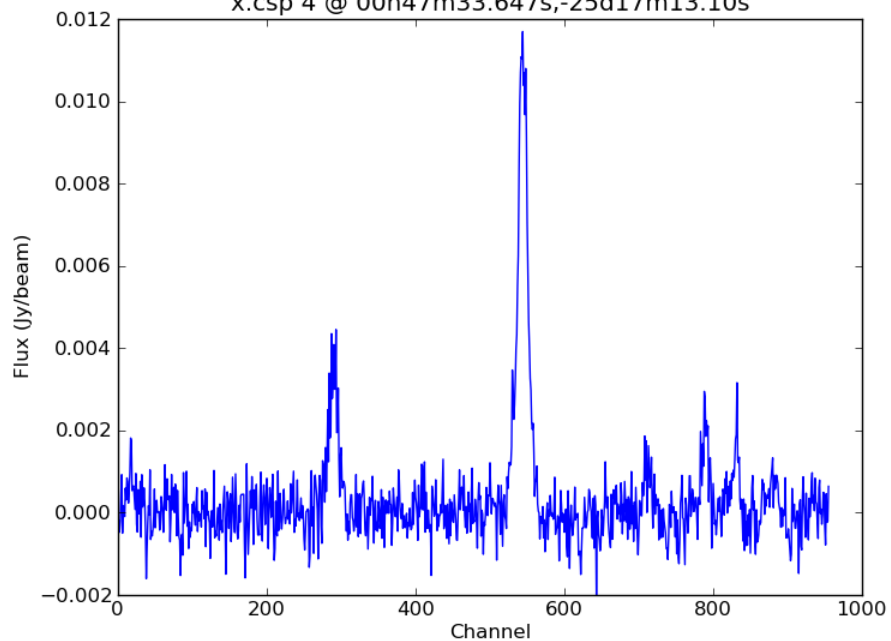
LineList

LineCube

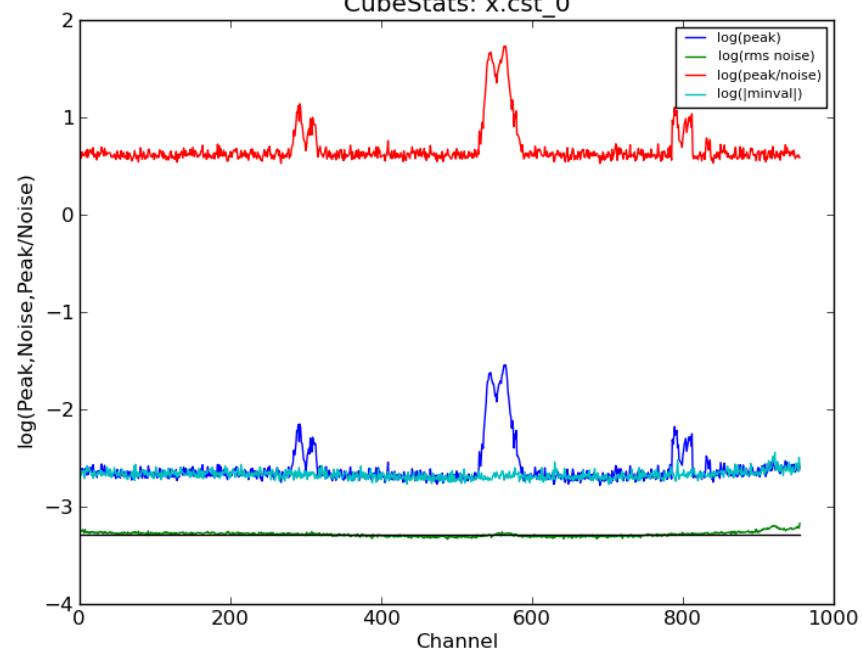
LineCubeMoment0,...

ADMIT flow diagram
AT and BDP's

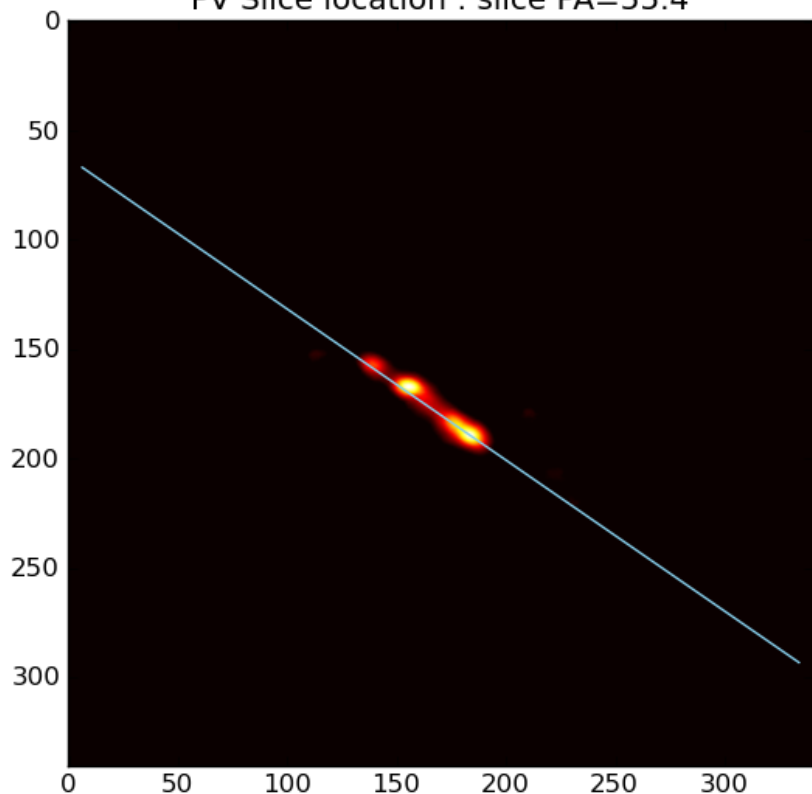
x.csp 4 @ 00h47m33.647s,-25d17m13.10s



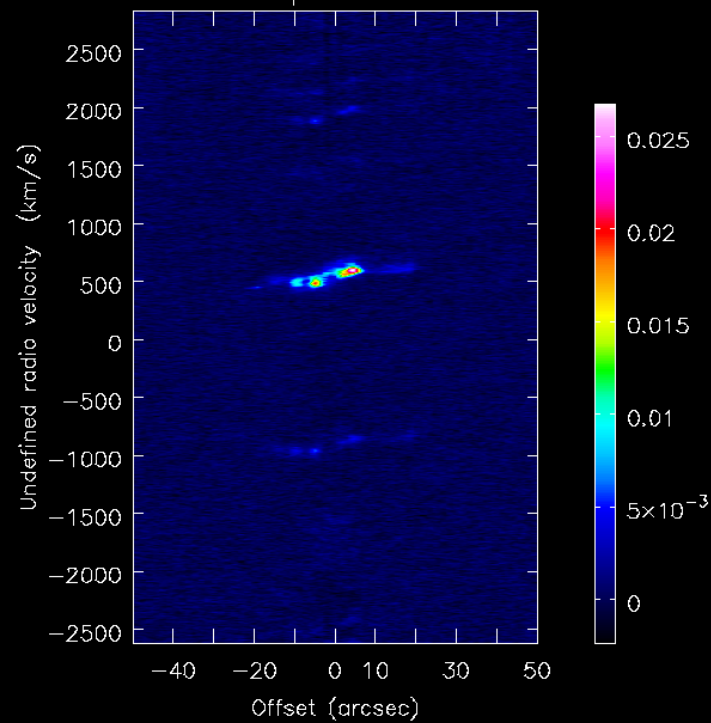
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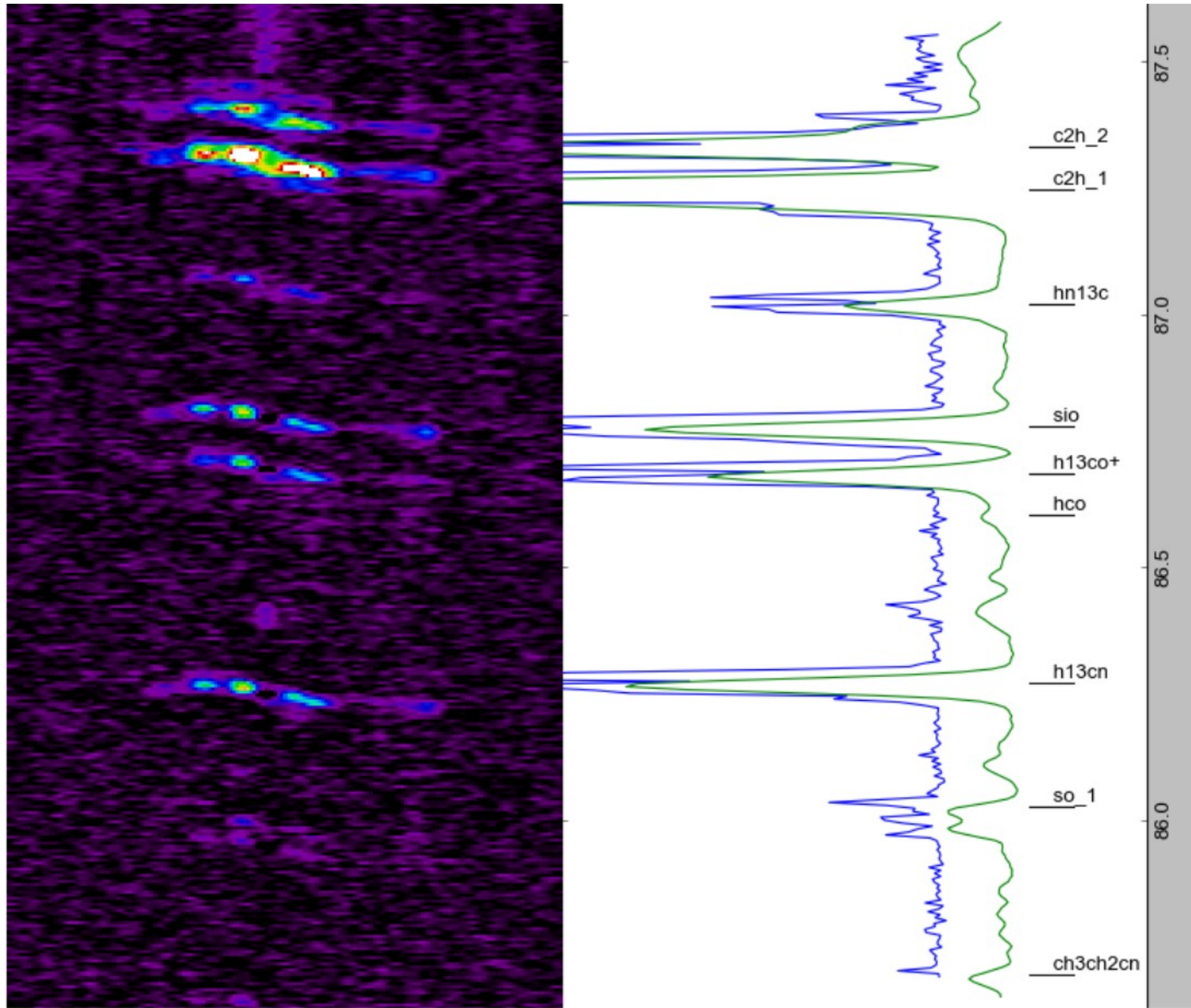


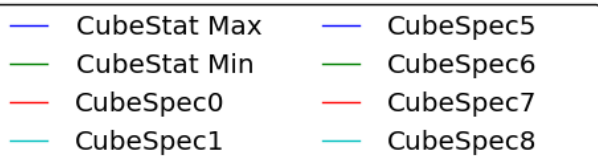
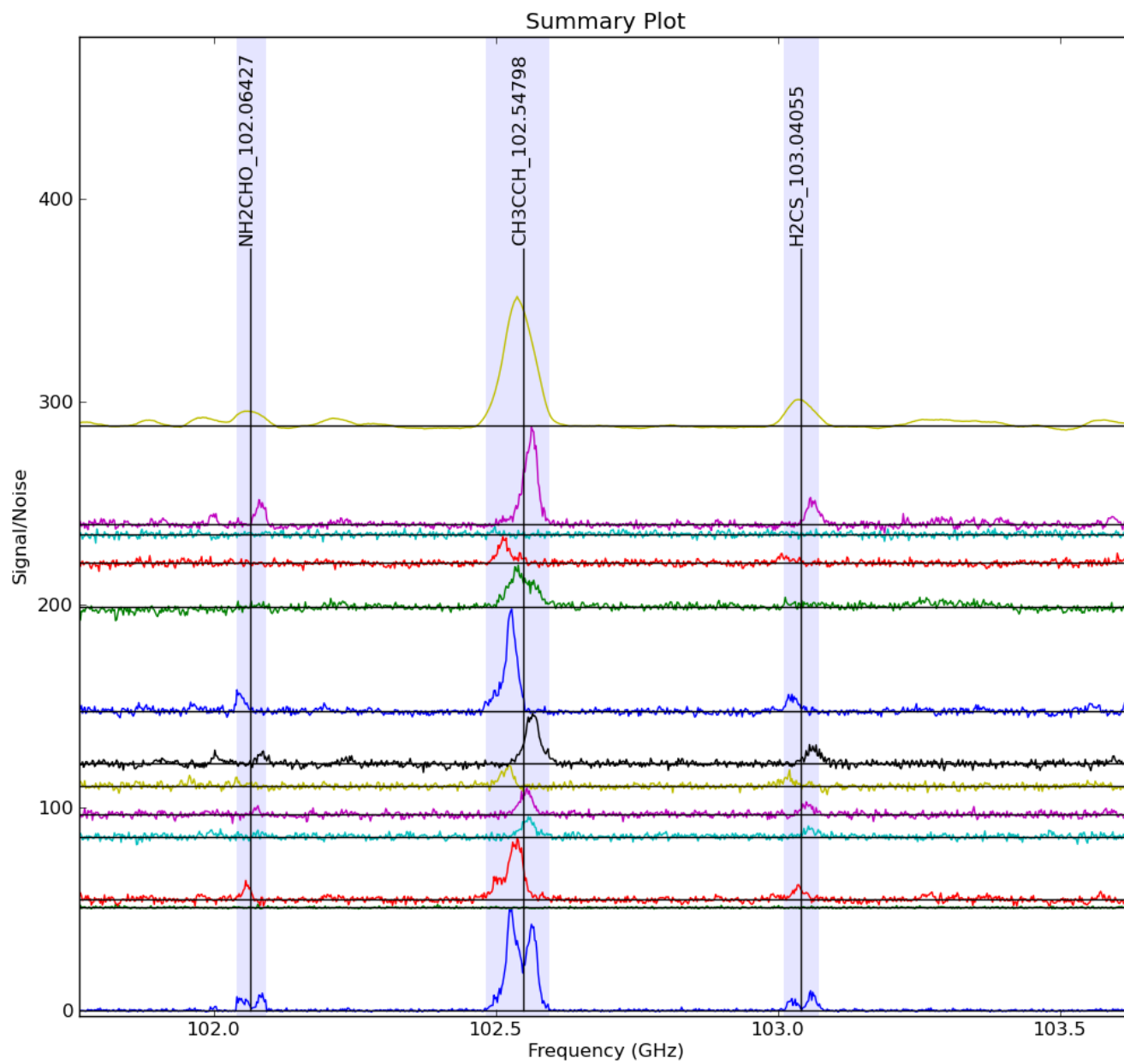
PV Slice location : slice PA=55.4

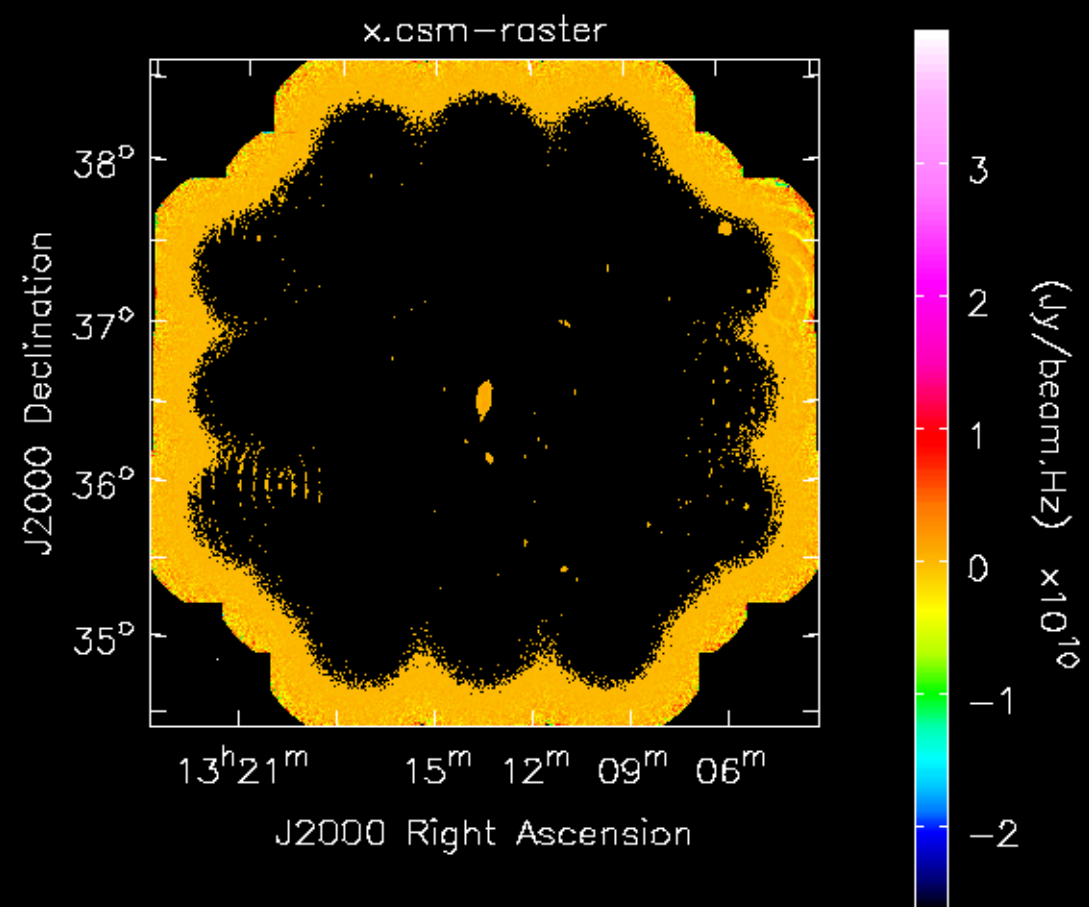


x.pv-raster

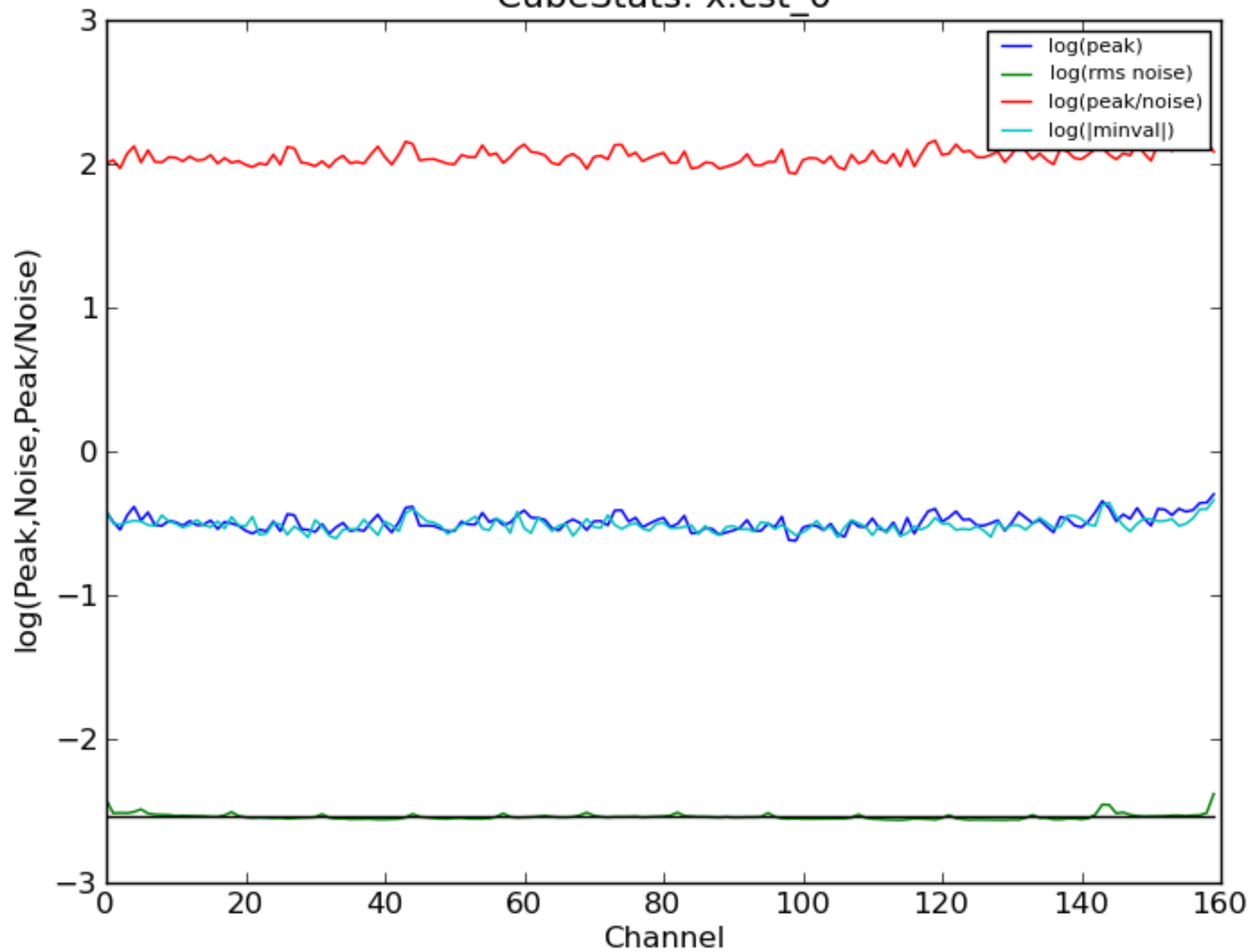


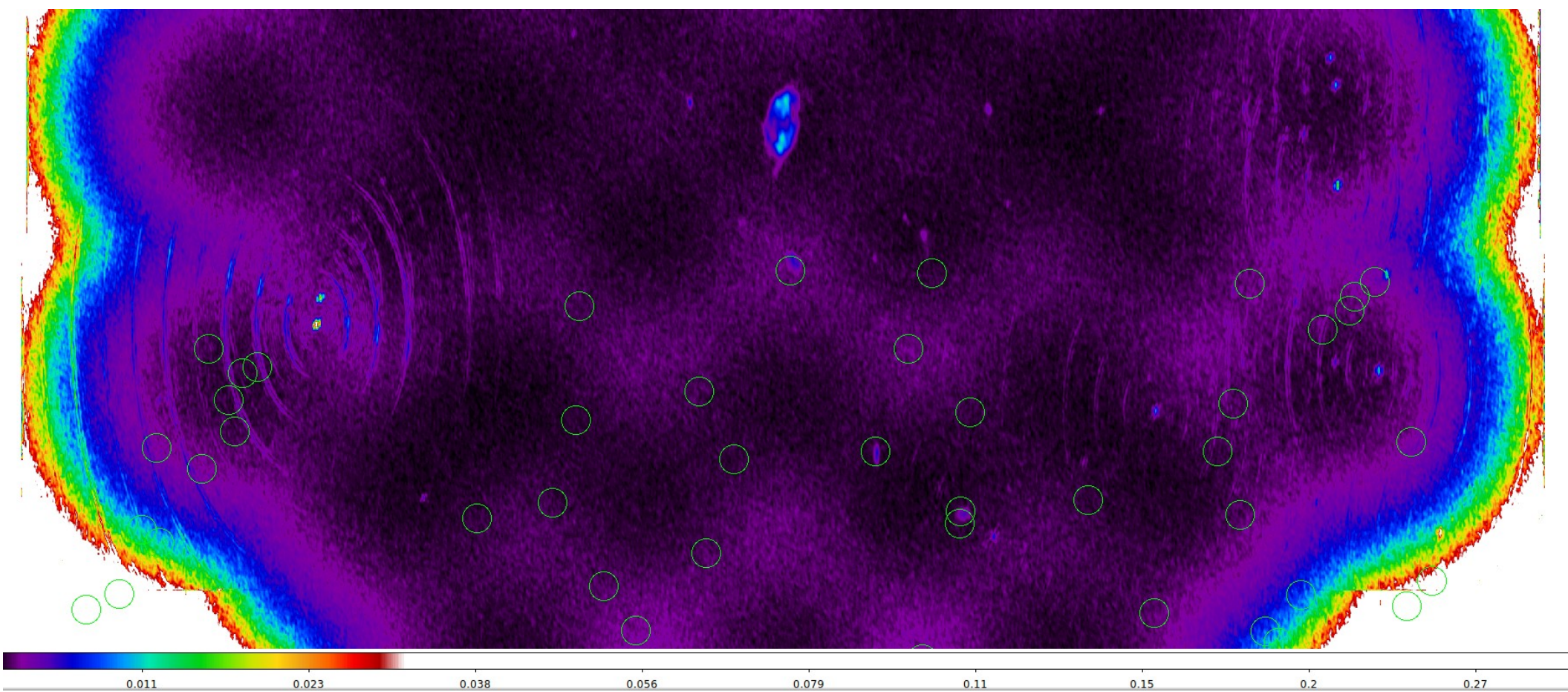


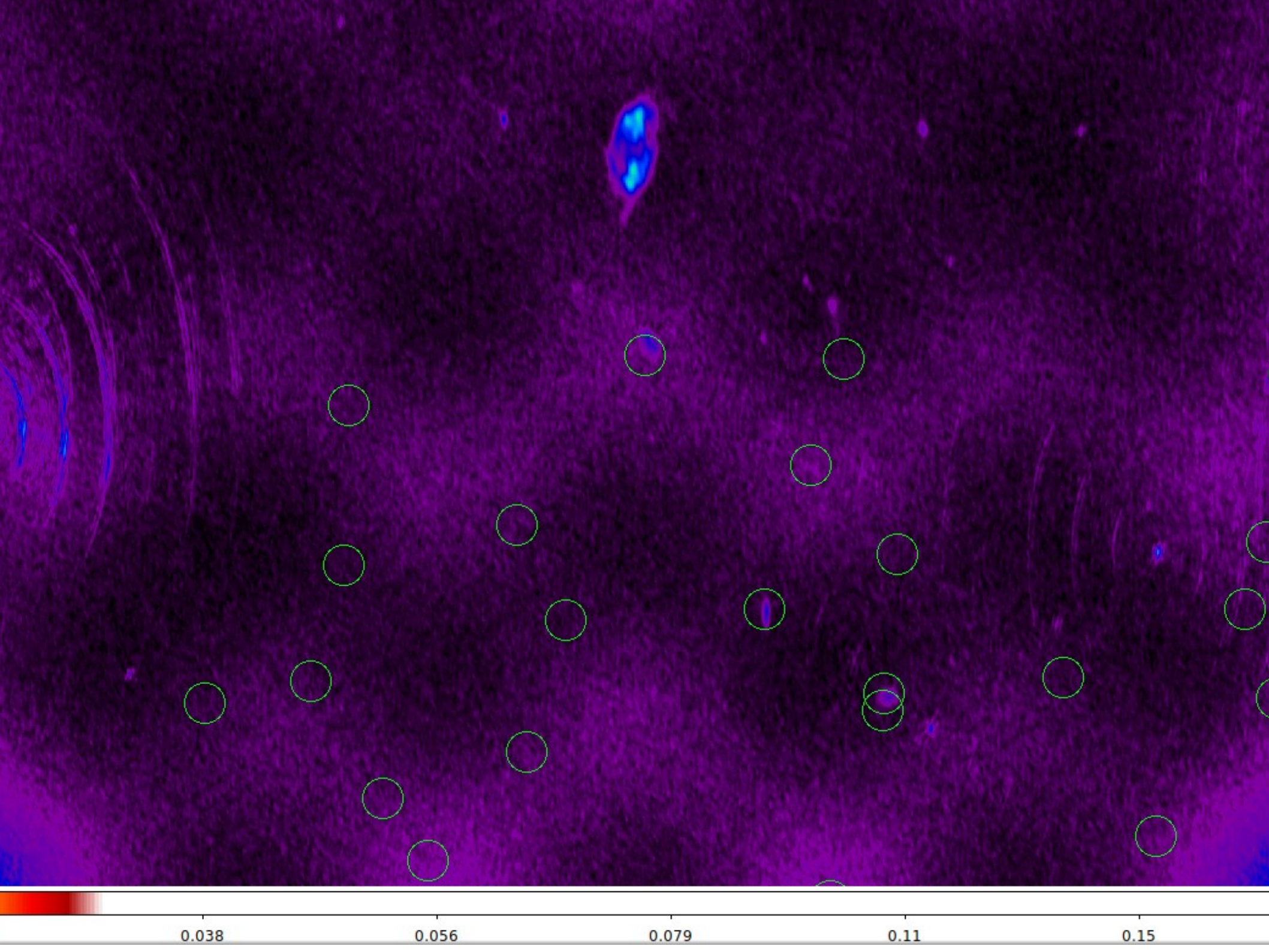




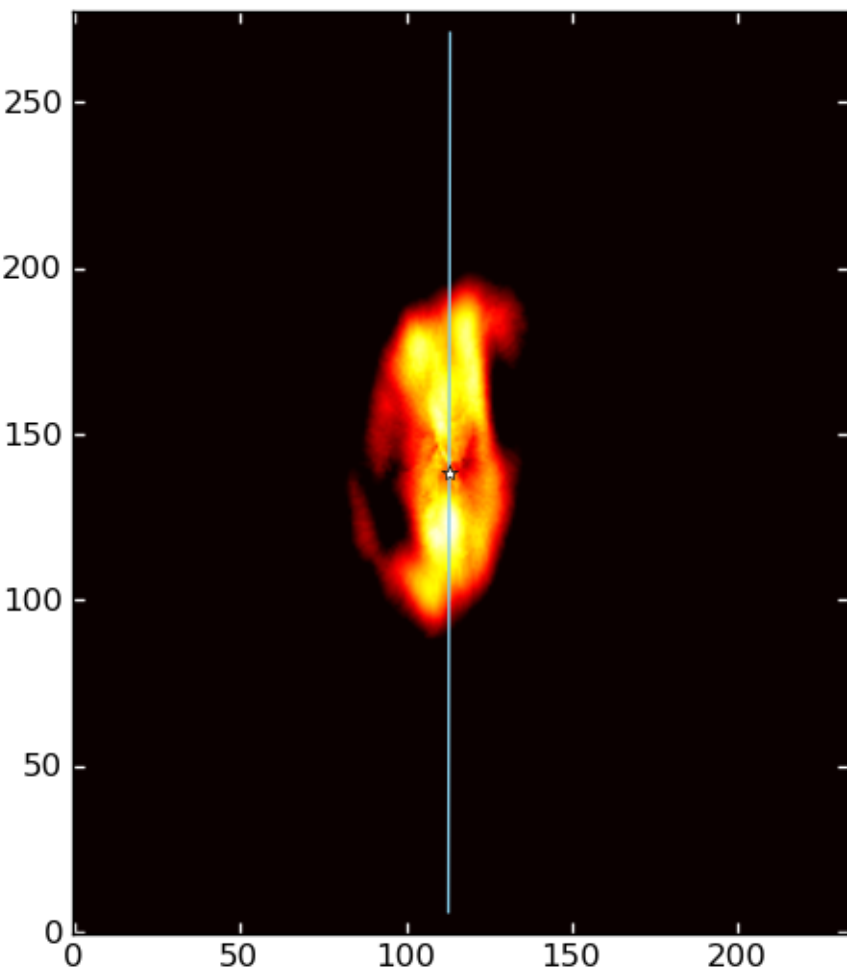
CubeStats: x.cst_0



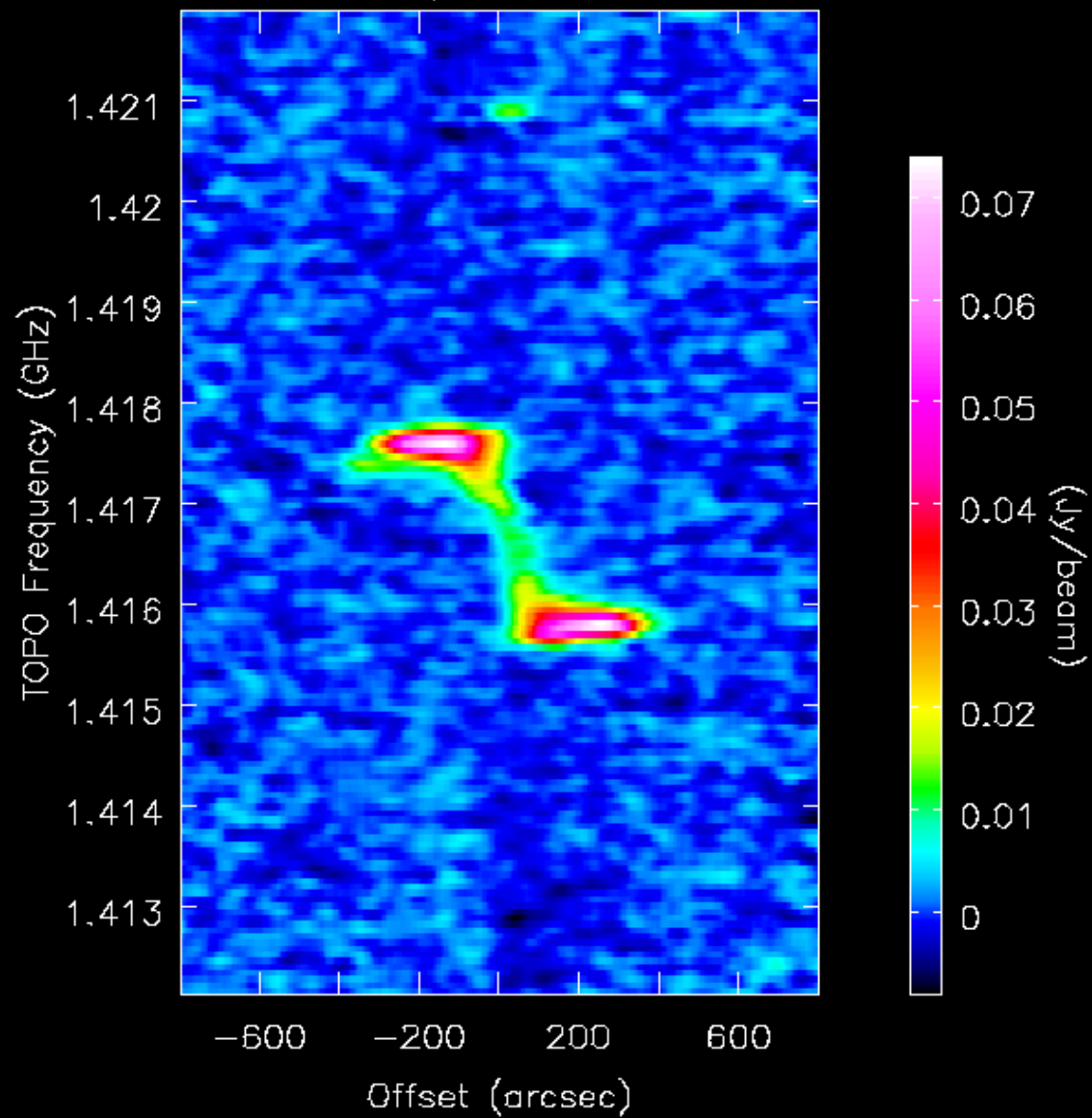




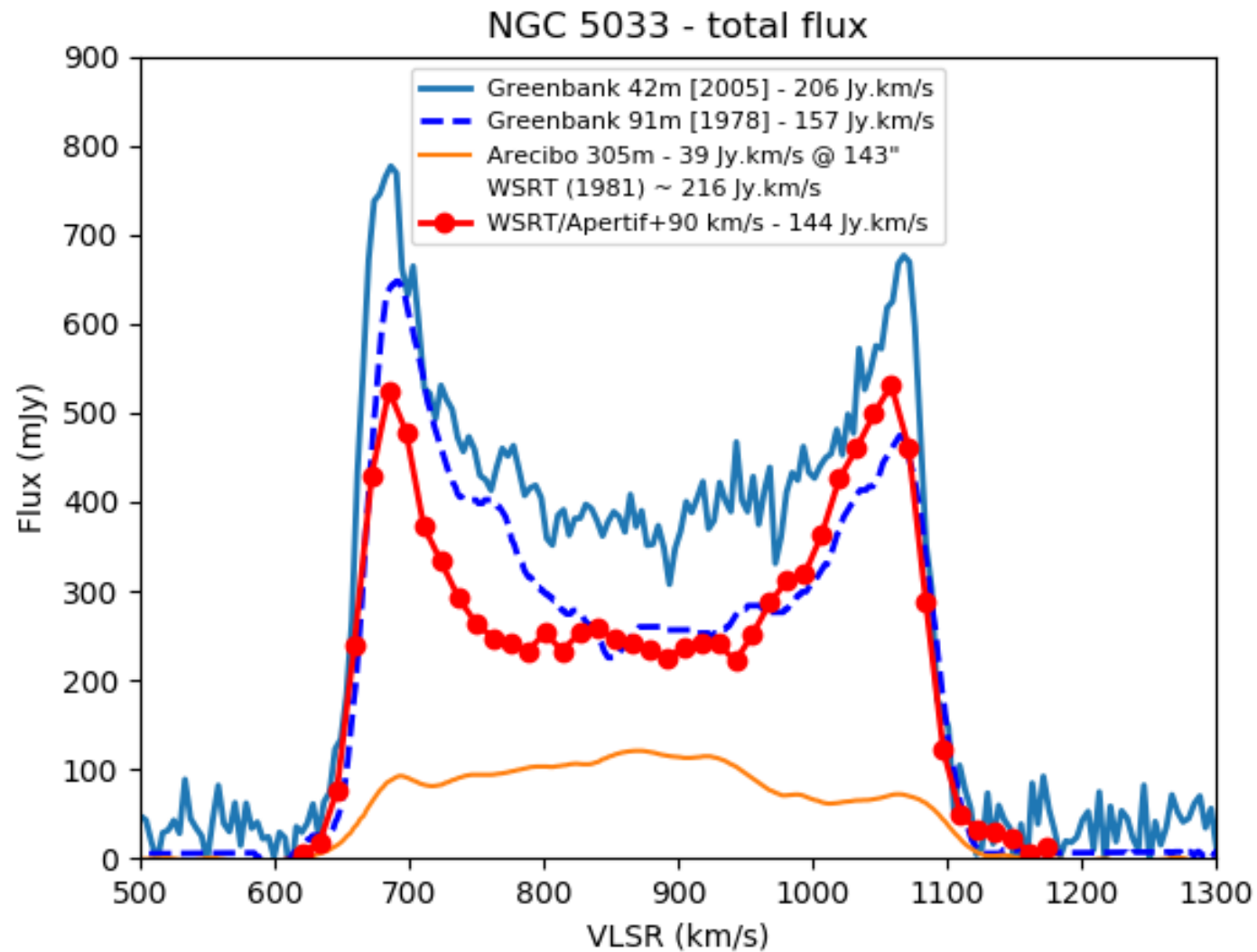
PV Slice location : slice PA=179.9



x.pv-raster



NGC 5033 – total flux



References

- ADMIT: <https://github.com/astroumd/admit>
- TP2VIS: <https://github.com/tp2vis/distribute>
- QAC: <https://github.com/teuben/QAC>
- ASCL: <http://ascl.net>

And I'll leave you admiring this
fabulous HI cluster/grouping

