

Multidimensional data: ALMA

- ALMA
 - 66 mm/sub-mm antennas in the Atacama Desert
 - General purpose telescope (“cold universe”)
 - Early Science has started in 2011
- Data products
 - raw data, science-grade data cubes, metadata
 - VO: metadata, science-grade cubes
 - Data is still “mid-sized”, i.e. user downloads for processing are possible
 - Maybe in the far future: higher-level products (moments, extracted spectra)

Multidimensional data: ALMA

- VO standards:
 - Use: OpenCADC TAP, voview (2.0)
 - Will use: SAMP, AladinLite(?)
 - Will provide: ObsCore, TAP, SIAPv2
 - Will probably provide: cut-outs, reprocessing
 - May provide: read-only VOspace for data requests
- General
 - All data is multidimensional (with potentially complex supports or degenerate axes)
 - Photons only can carry 4 properties