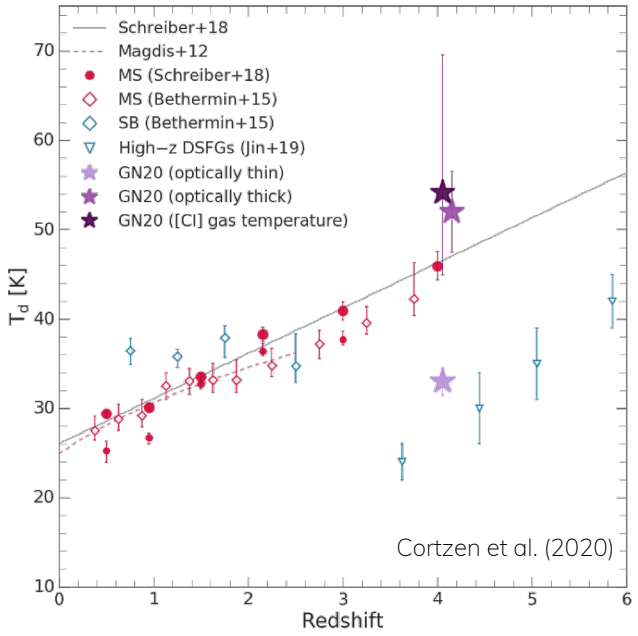
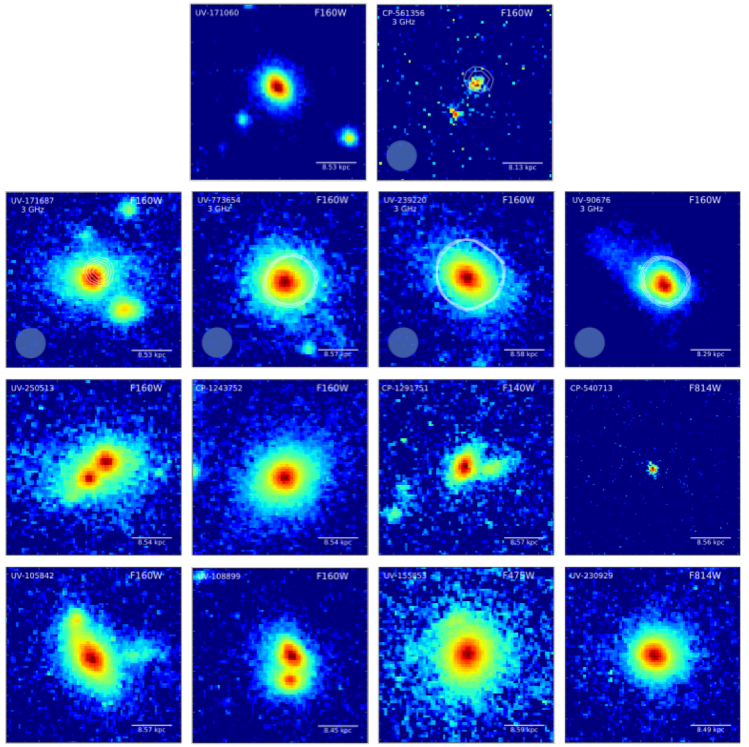
Deceptively cold dust in a high-z starburst galaxy



- Why do high-z starburst have extreme dust-to-stellar mass ratios and cold dust temperatures?
- Degeneracy between optically thin and thick solutions for poorly sampled galaxy SEDs – [CI] may help break the degeneracy
- Often optically thin solutions are assumed – underestimate the dust temperature and overestimate the dust mass

Radio-loud massive quiescent galaxies at z~2

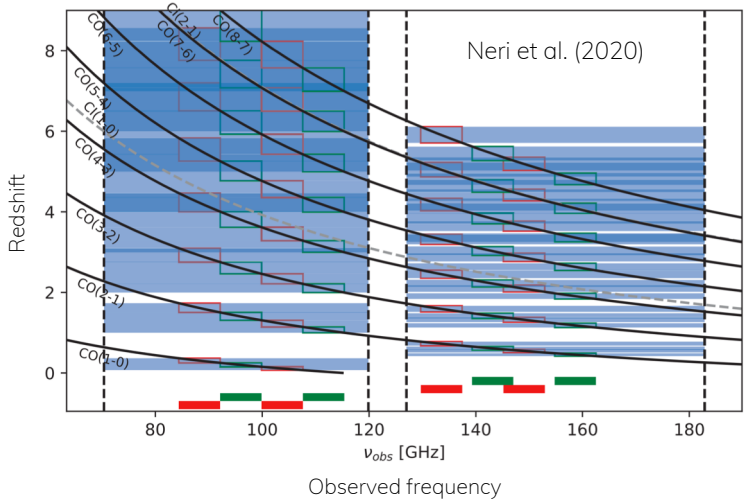
Ongoing project



- Spatially coinciding radio emission in 5 out of 14 massive quiescent galaxies at z~2

Redshift survey of ~200 SMGs with NOEMA

Future project (from September 2020)



- z-GAL: Targeting bright dust-obscured galaxies at z~2-3 - at the peak of the SFRD
- 2 and 3 mm spectral scans
- Pilot study of 13 SMGs to derive FIR and CO+[CI] properties (Neri et al. 2020)