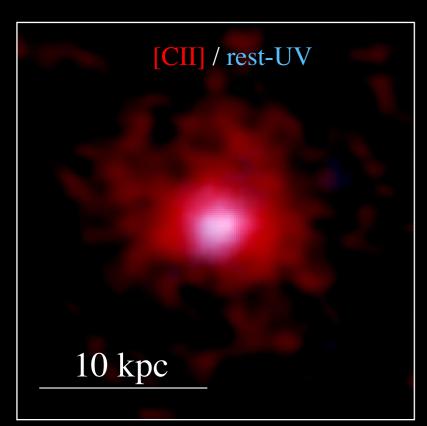
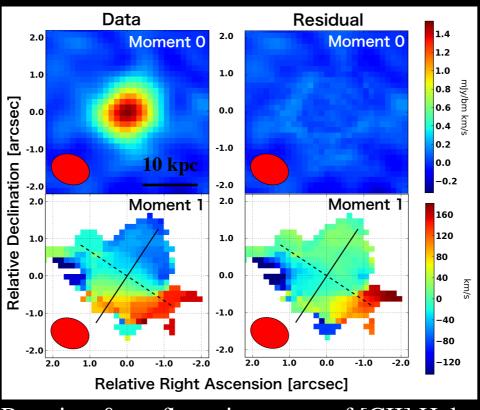
ALMA Deep View from Interstellar & Circumgalactic Media to Cosmic Scales in Early Universe

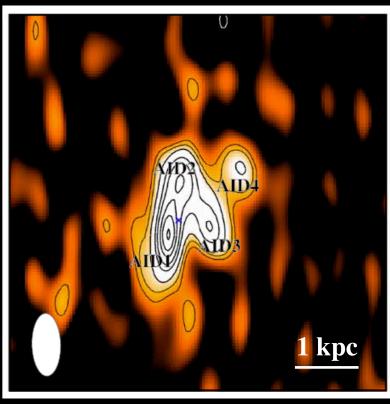
Seiji Fujimoto (DAWN Fellow)



Stacked [CII] vs. rest-UV at z=5-7 (Fujimoto+19a)



Rotation & outflow signatures of [CII] Halo (Fujimoto+20b)



Dusty clump structure in quasar host (Fujimoto+20a)

- 1. Detail morphology+kinematic studies for z > 4-6 galaxies & quasars with ALMA
- 2. Discovery of r~10-15 kpc [CII] Halo at z=6 & Clumpy ISM structure in the most supermassive blackhole host at z>6 & ALMA Lensing Cluster Survey
- 3. Dual measurements of [CII] & Lya Halos around early galaxies & quasars
- 4. ALMA cycle 8 proposals: Deep [CII] Halo for ALPINE (Sune, Pascal, Desika+) & luminous quasars with Lya Halo (Fabian+)