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Far-infrared line emission from the interstellar medium (ISM) of galaxies

Follow the project at <u>http://kpolsen.github.io/sigame/</u> !!

SIGAME: SImulator of GAlaxy Millimeter/submillimeter Emission



Using cloudy to model a grid of giant molecular clouds (GMCs) and diffuse gas clouds...

... to get line emission from different ISM phases in simulated galaxies (MUFASA suite Davé+16 MNRAS 462):



Papers out on: [CII] emission at z = 2 (Olsen+15, ApJ 814 76) and CO line emission at z = 2 (Olsen+16, MNRAS 457 3) (See also: <u>http://www.digame.online/</u> - DIrectory for Galaxy Millimeter/submillimeter Emission)