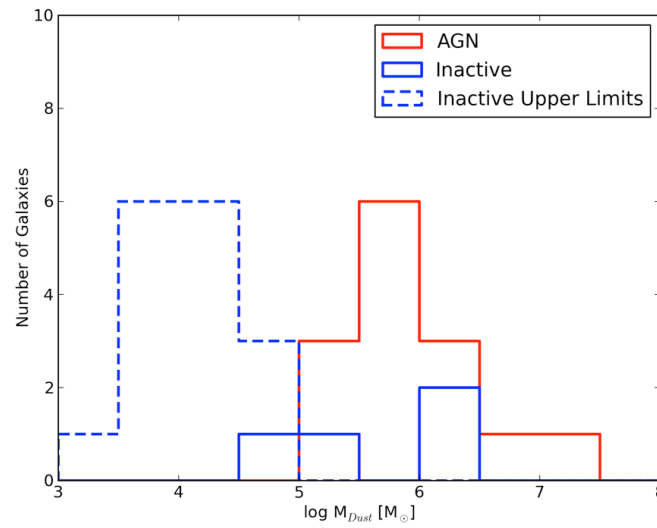


The Dust Dichotomy in Nearby AGN and Inactive Early-Type Galaxies with Spitzer

Paul Martini, Daniel Dicken, & Thaisa Storchi-Bergmann



Poster 13

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Results & Implications:

- Approximately half of early-type galaxies have 10^{5-6} M_{sun} of dust. This includes all of the AGN. The other half have at least 100x less dust.
- The dust may fuel AGN, or simply make the AGN easier to see as emission-line objects.
- The measured dust masses are consistent with accretion of gas-rich satellites, although the short dust lifetime (10^{7-8} yr) and 50% duty cycle implies a (uncomfortably?) high merger rate.

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