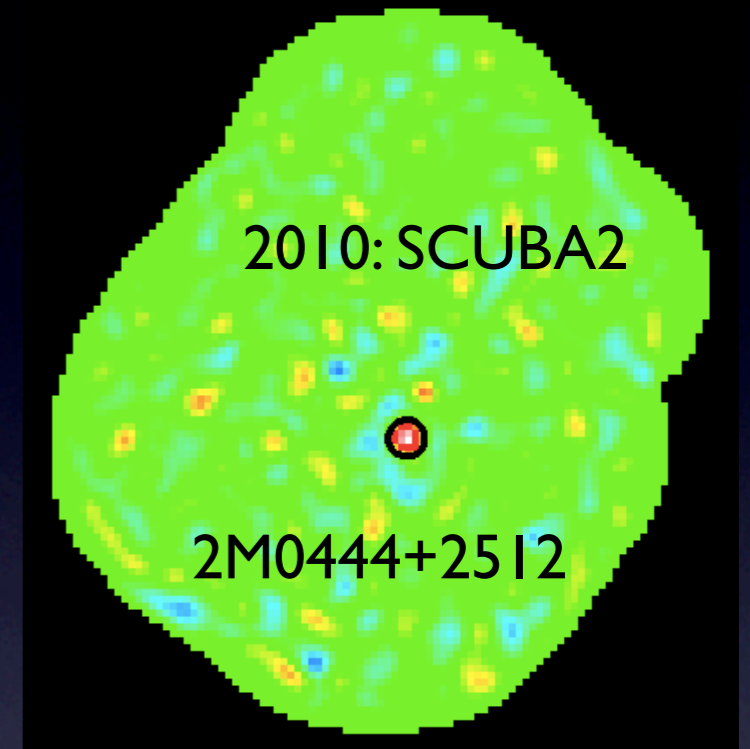
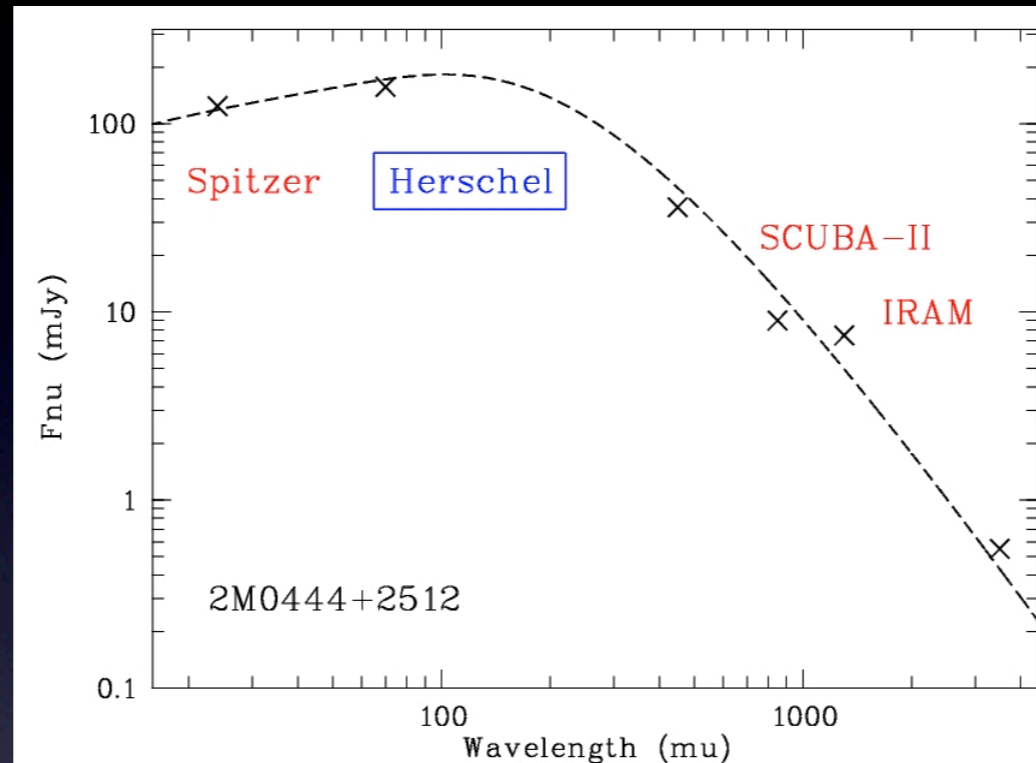


Brown dwarf disks with Herschel/SCUBA2

PI:2 - Aleks Scholz (Dublin Institute for Advanced Studies)



First results from SCUBA2 mini-survey: (Mohanty et al. 2010, Cool Stars 16)

- 1/7 detected; disk masses in Taurus $\lesssim 0.5\%$ M_{star}, in TWA $\lesssim 0.1\%$ M_{star}
- for 2M0444+2512 evidence for grain size > 1 mm from submm/mm slope
- either grain growth faster or dust-to-gas ratio smaller or M_{disk}/M_{star} smaller in BD regime
- planet formation likely strongly hampered in BD disks

Herschel: PACS essential to cover the SED peak and to break degeneracies; SPIRE will be challenging (but not impossible)