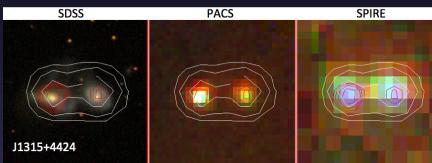
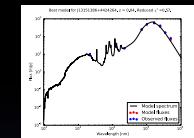


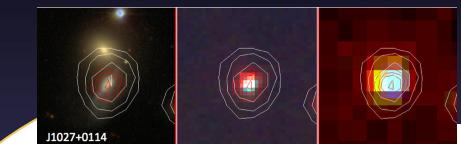
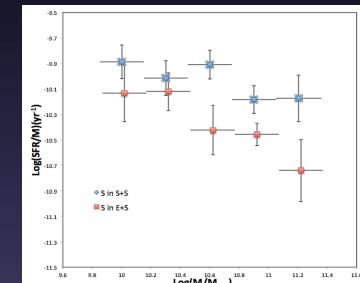
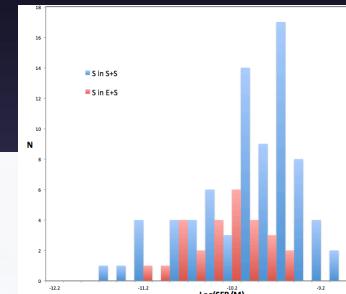
# Does the Star Formation Rate of a Paired Spiral Depend on its Companion's Morphology?

Donovan Domingue, C. Kevin Xu , Chen Cao and Thomas Jarrett

- The CIGALE code (Noll et al. 2009) provides quality dust model fits to the NIR-FIR
- K-band selected pairs (62 spirals in S+S pairs, 23 in S+E pairs)
- Spirals in S+E vs. S+S pairs exhibit different distributions in
  - ◆ SFR/M (specific star formation rate)
  - ◆ dust model parameter Umin (~ temperature)
- Spirals in the S+E exhibit decreasing SFR/M inverse to mass.



Spiral +  
Spiral  
Pair



Spiral +  
Early Type  
Pair

S+S spirals have a wider range/higher medians of star formation rates and  $T_{dust}$ . An indication of influence of pair DM/gas halo history.

