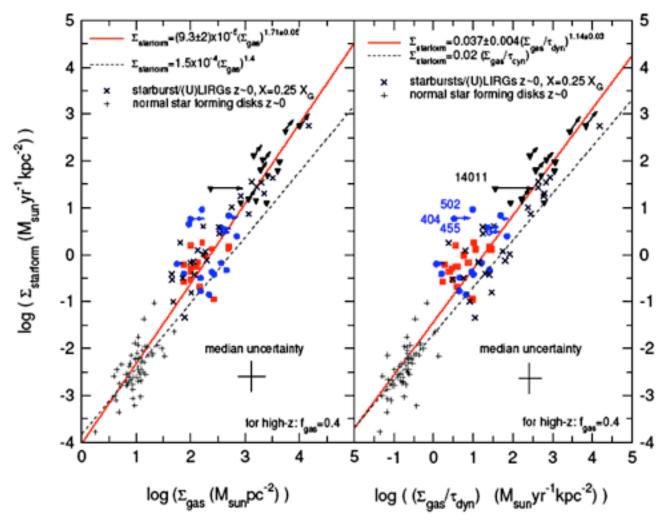
"Triggering Mechanisms": Do we need them?

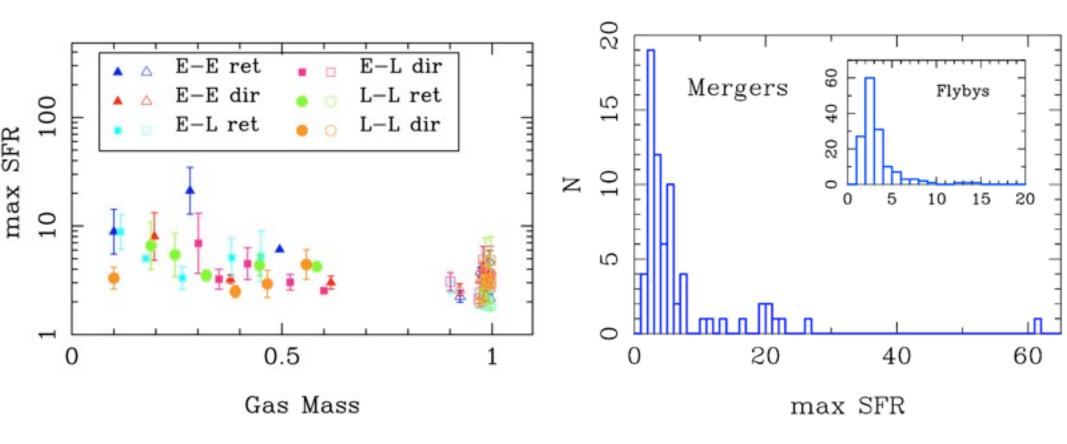
"Triggering Mechanisms": Do we need them?



Globally, 'triggering' = raising gas density

- "Triggering Mechanisms": Do we need them?
  - Depends on definition of 'burst':
    - Is cooling a 'trigger'? If star formation is quasi steady-state, is there a 'trigger'?

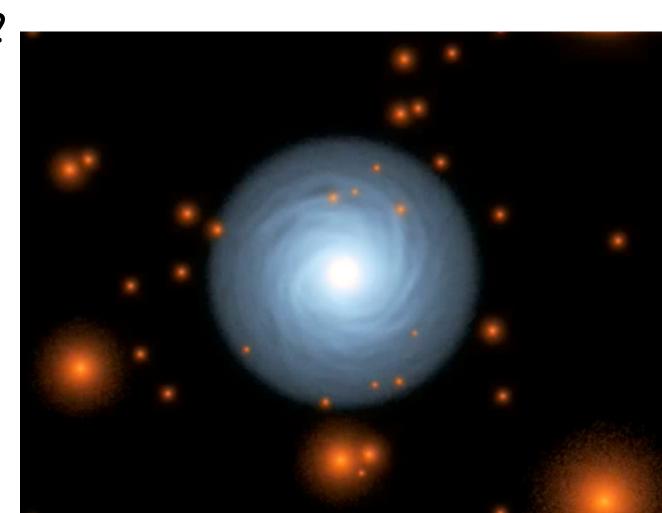
- "Triggering Mechanisms": Do we need them?
  - Depends on definition of 'burst':



- Triggering AGN:
  - Does it need to know anything global? (\*Specifically\* mergers/bars/etc?)
  - Does it need to know anything local? (Just a function of central gas densities/ star formation)

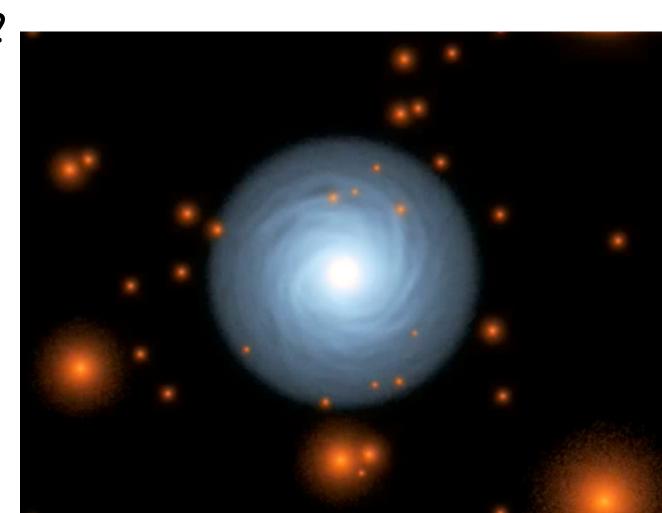
- Mergers, bars, lopsidedness:
  - How can we distinguish them?

- Mergers, bars, lopsidedness:
  - How can we distinguish them?
  - Is it meaningful?



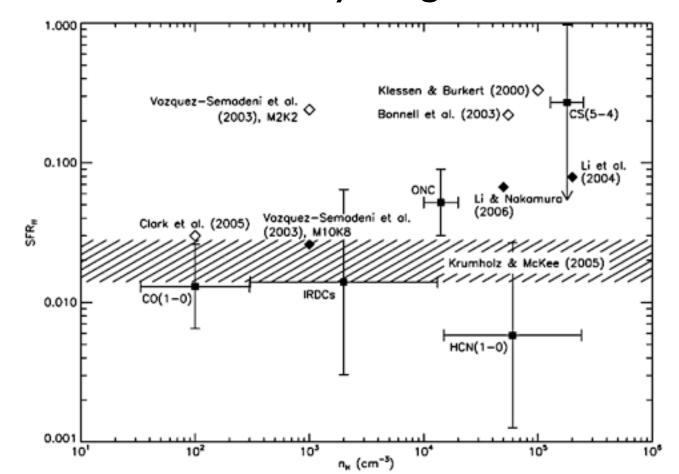
- Mergers, bars, lopsidedness:
  - How can we distinguish them?
  - Is it meaningful?

- Mergers, bars, lopsidedness:
  - How can we distinguish them?
  - Is it meaningful?



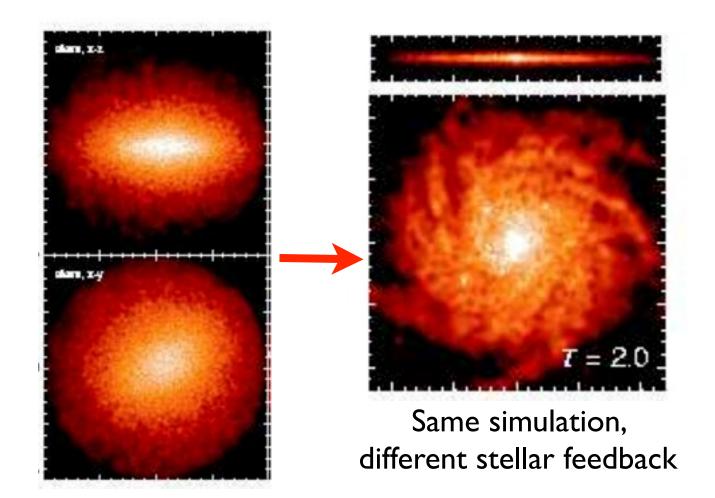
- Mergers, bars, lopsidedness:
  - Different properties in 'relics'? ('classical' vs 'pseudo' bulges)
  - Can we correlate this with the starburst history of the Universe?

- Star formation prescriptions:
  - ullet KS-Law:  $\dot{
    ho}_* \propto 
    ho/t_{
    m dyn}$  (roughly)
  - Do we need anything else?



- Star formation prescriptions:
  - Do we need anything else?
    - Molecule formation
    - Dependence on pressure, density, ionization field, etc.
  - Global vs. local interests

- Star formation feedback prescriptions:
  - No outflow? I0x SFR in outflow?



- Star formation feedback prescriptions:
  - Does this matter for 'triggering' discussions?