

What does it mean to understand galaxy evolution?

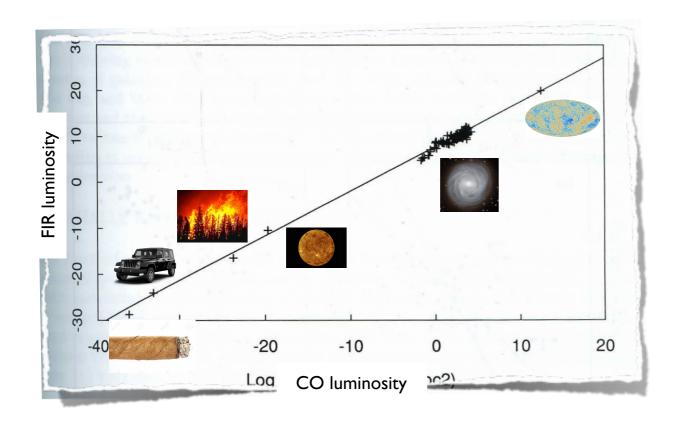


What does it mean to understand galaxy evolution?



Lots of fantastic new data / surveys / simulations: is the "bigger picture" getting clearer?

◆ Easy to plot everything vs everything. Are scaling relations always meaningful?
e.g. Stephane Courteau, Luca Cortese...



- x and y uncorrelated
- y/x vs x correlated
- log y/x vs log x even better!

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◆ Easy to plot everything vs everything. Are scaling relations always meaningful?

◆ Complexity (both physics and data) increases. So does "noise" And... are we getting lost in translation? Early types / late types, blue ellipticals, red spirals, red/green/blue galaxies... Gas rich and gas poor...

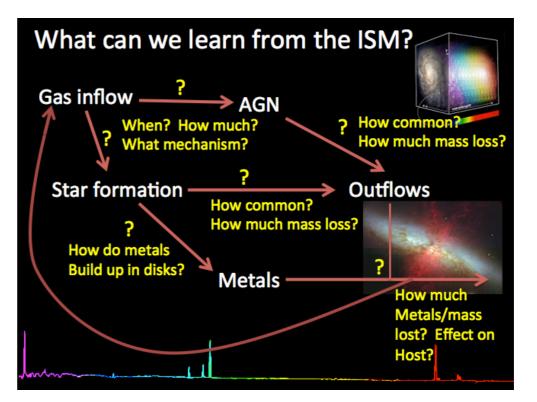
Are we rediscovering old things?

"Tools, software and instruments are better but are we just doing the same thing we were in the 90s?" (Eric Emsellem)

Keep historic memory/perspective! (Brad Gibson)

How to quantify progress?

Eliminating one big question mark typically introduces several more!



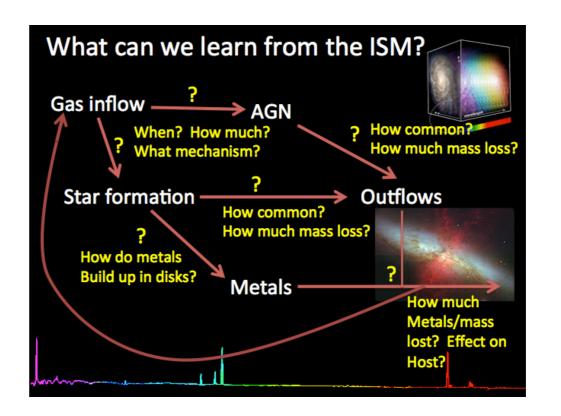
Lisa Kewley



Why haven't star-forming galaxies run out of gas yet?

How to quantify progress?

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Why haven't star-forming galaxies run out of gas yet?

Gas accretion!!



what kind of accretion?? hot/cold? smooth? minor or major mergers? galactic fountain?

how much accretion? how often? how does it depend on galaxy properties, assembly history etc.??

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How to quantify progress?



Thanks to the organizers and all the participants for such an exciting and enjoyable conference!!