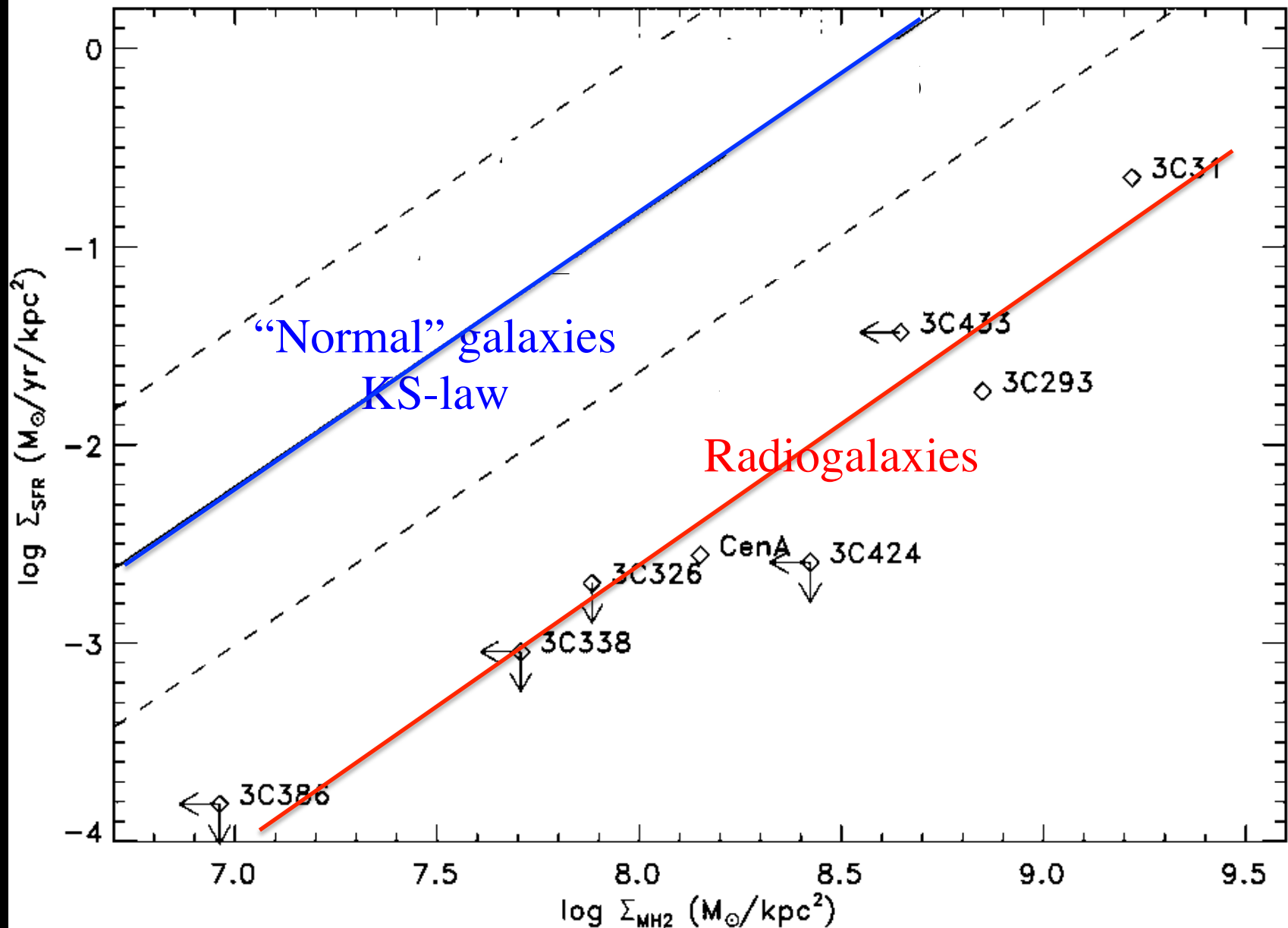


The background of the slide is a dark, cosmic scene. It features a faint, glowing spiral galaxy in the center, with a bright, yellowish-white jet or beam of light extending from its core towards the upper right corner. The background is filled with numerous small, distant stars and nebulae, creating a sense of deep space.

*AGN feedback in
young and old radio galaxies*

Star-formation efficiency



Radio galaxies show low efficiency

Cold molecular gas is needed to form stars

AGN feedback prevents its collapse

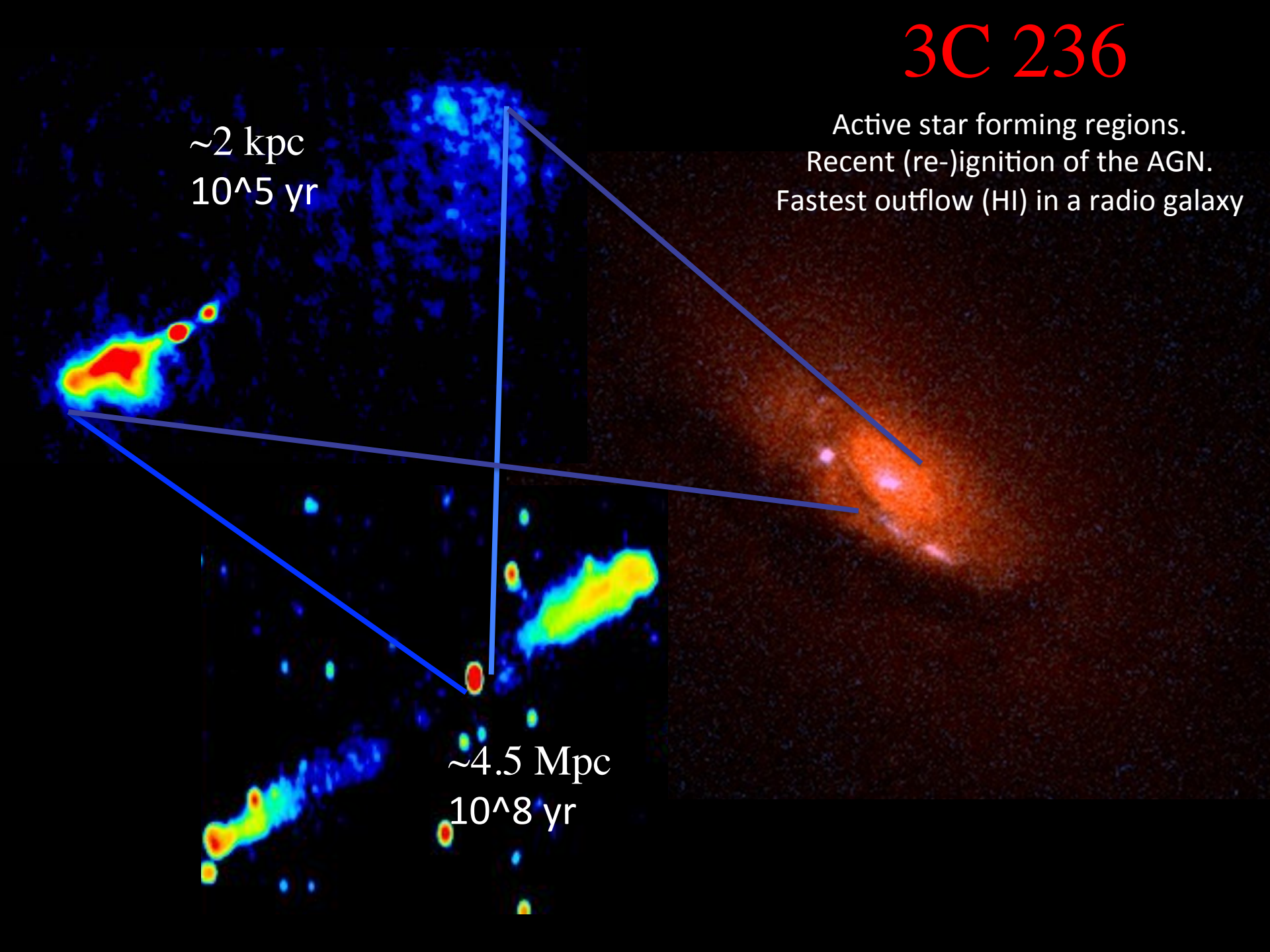
*Only one (?) radio galaxy shows feedback in the
cold molecular gas.*

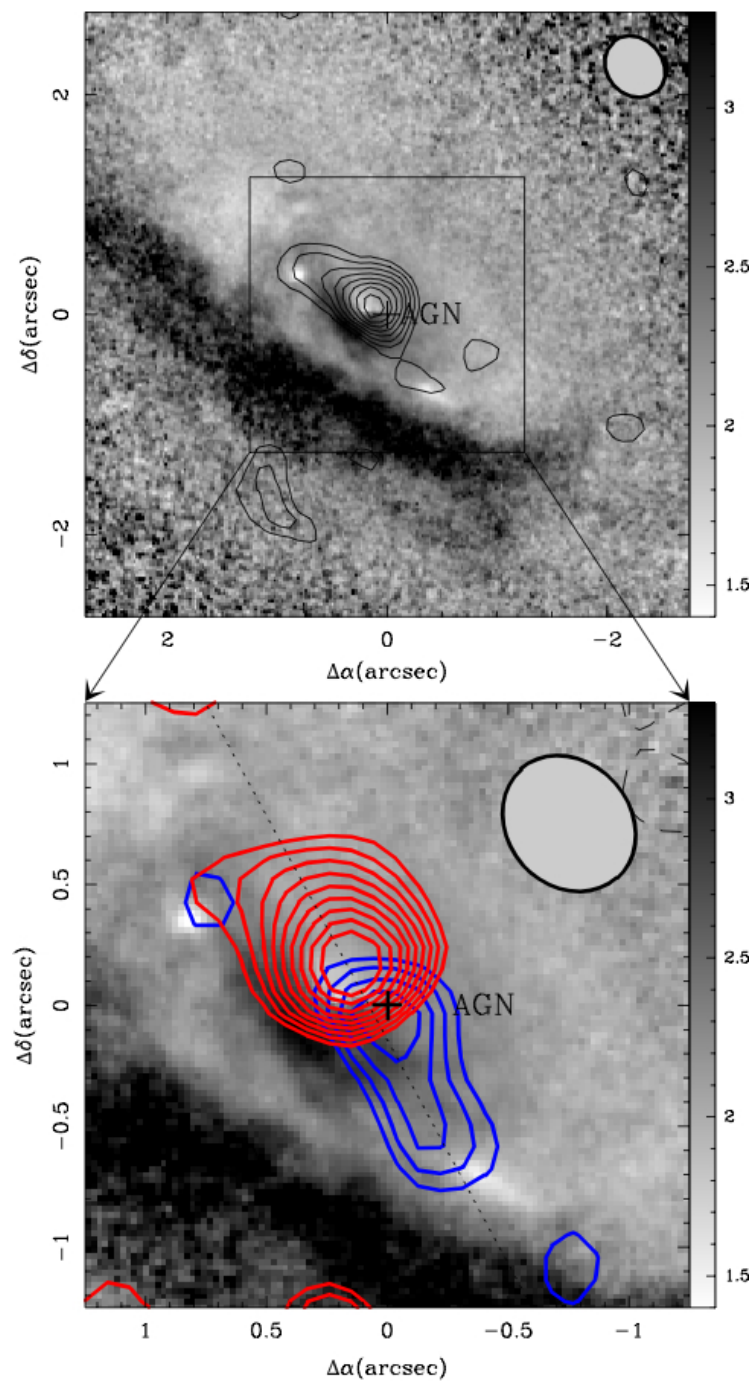
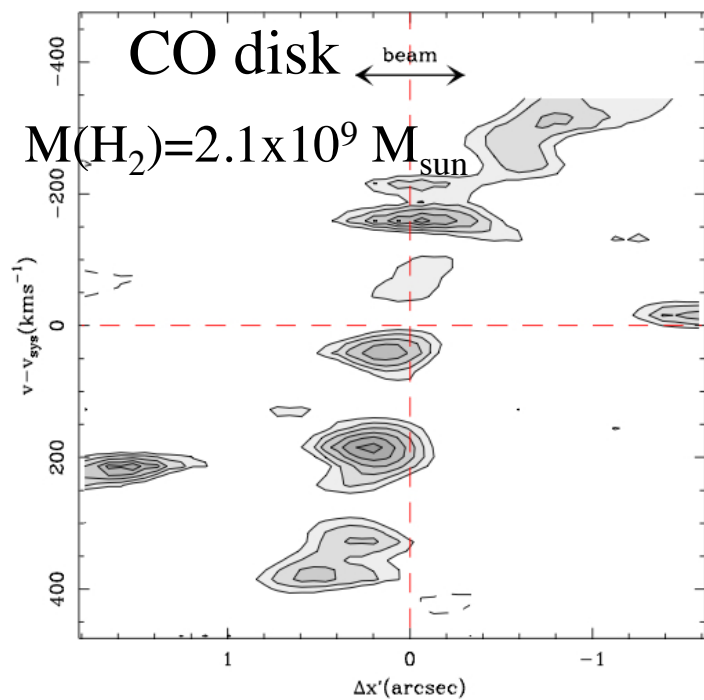
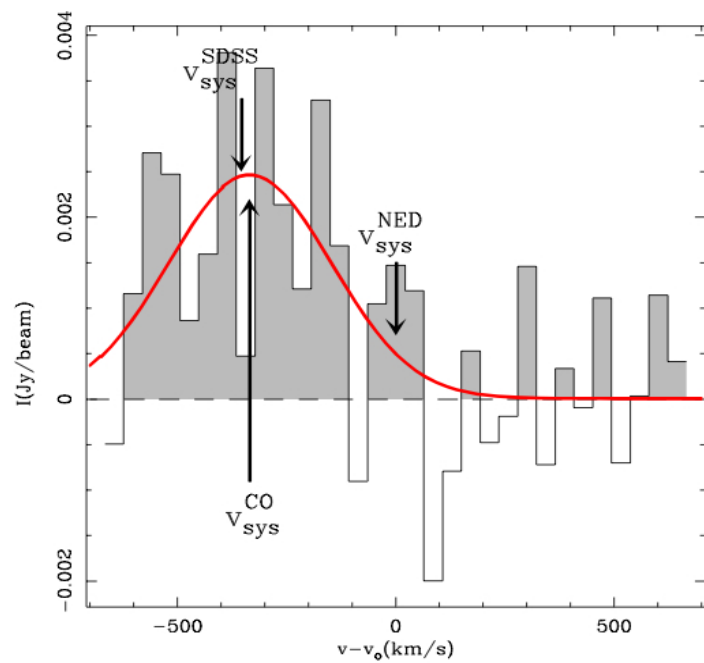
3C 236

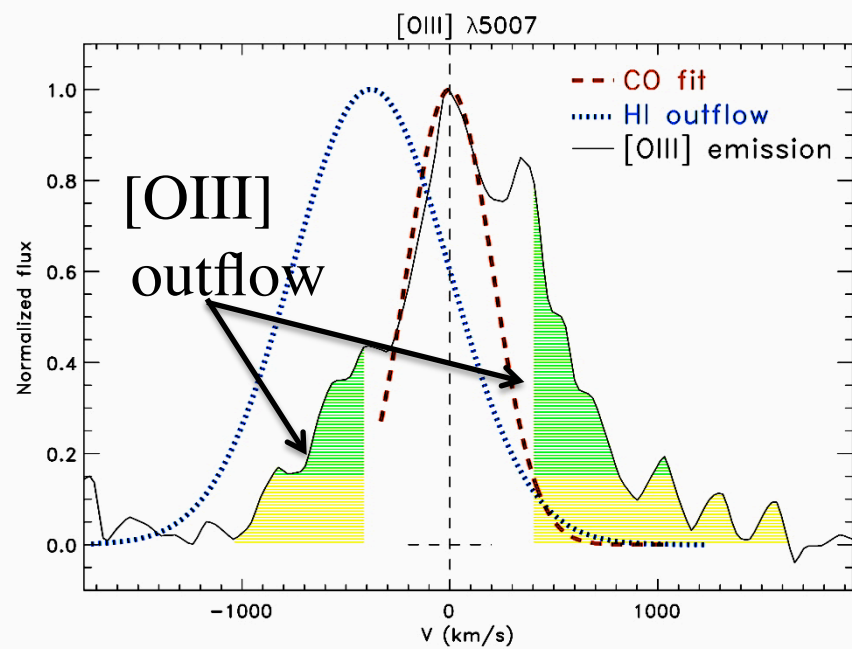
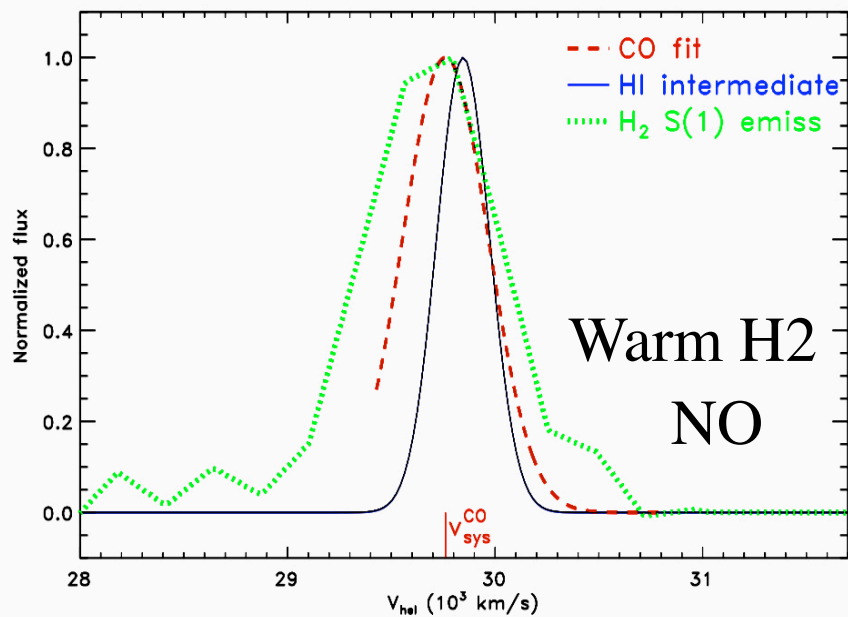
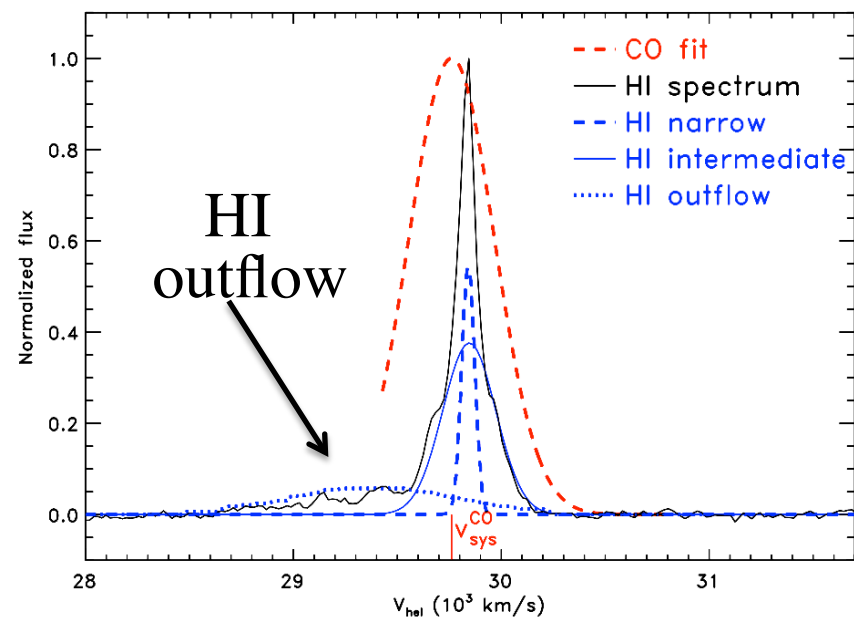
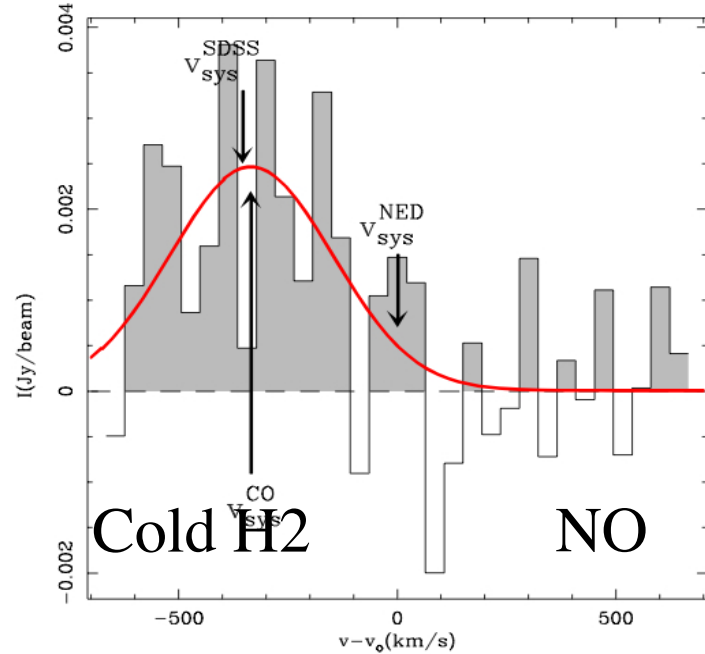
Active star forming regions.
Recent (re-)ignition of the AGN.
Fastest outflow (HI) in a radio galaxy

~ 2 kpc
 10^5 yr

~ 4.5 Mpc
 10^8 yr

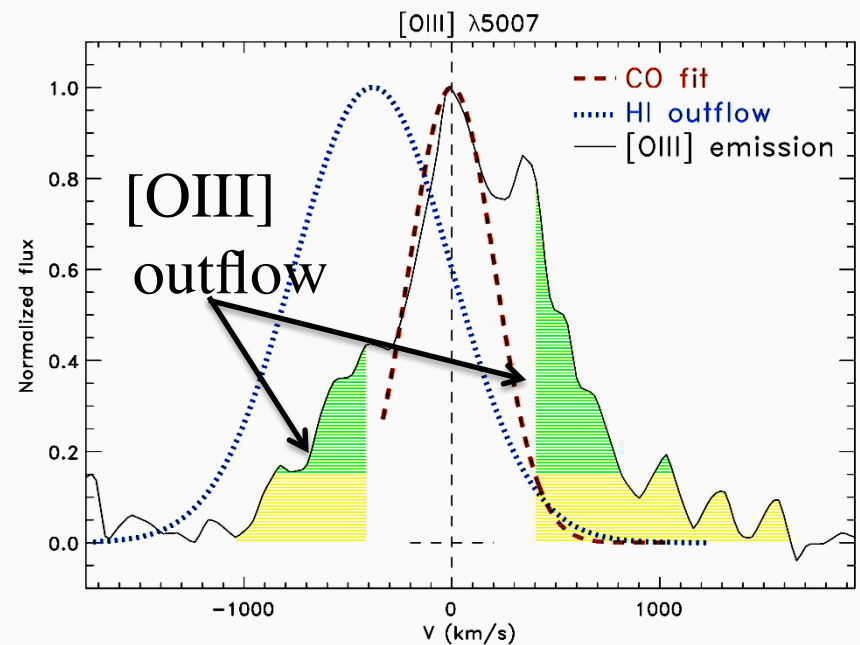
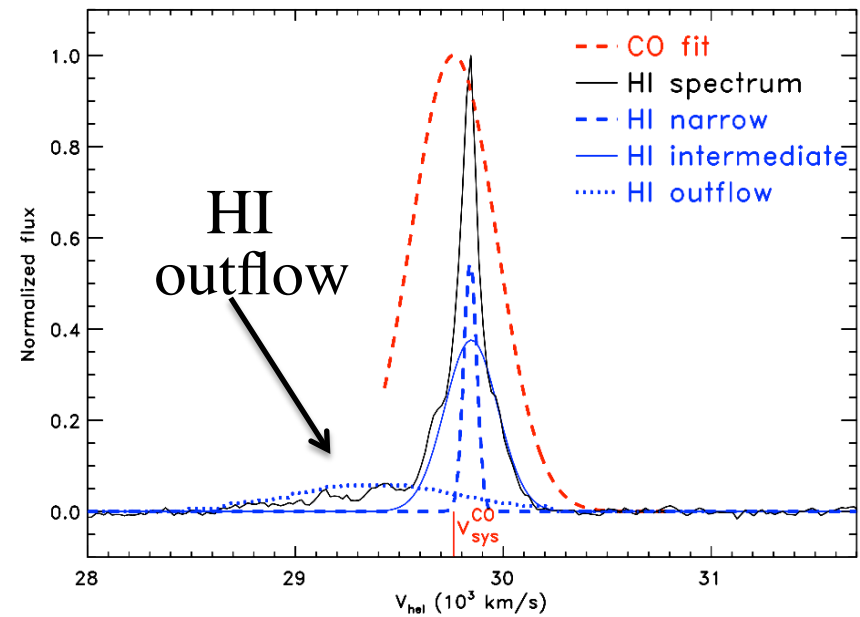


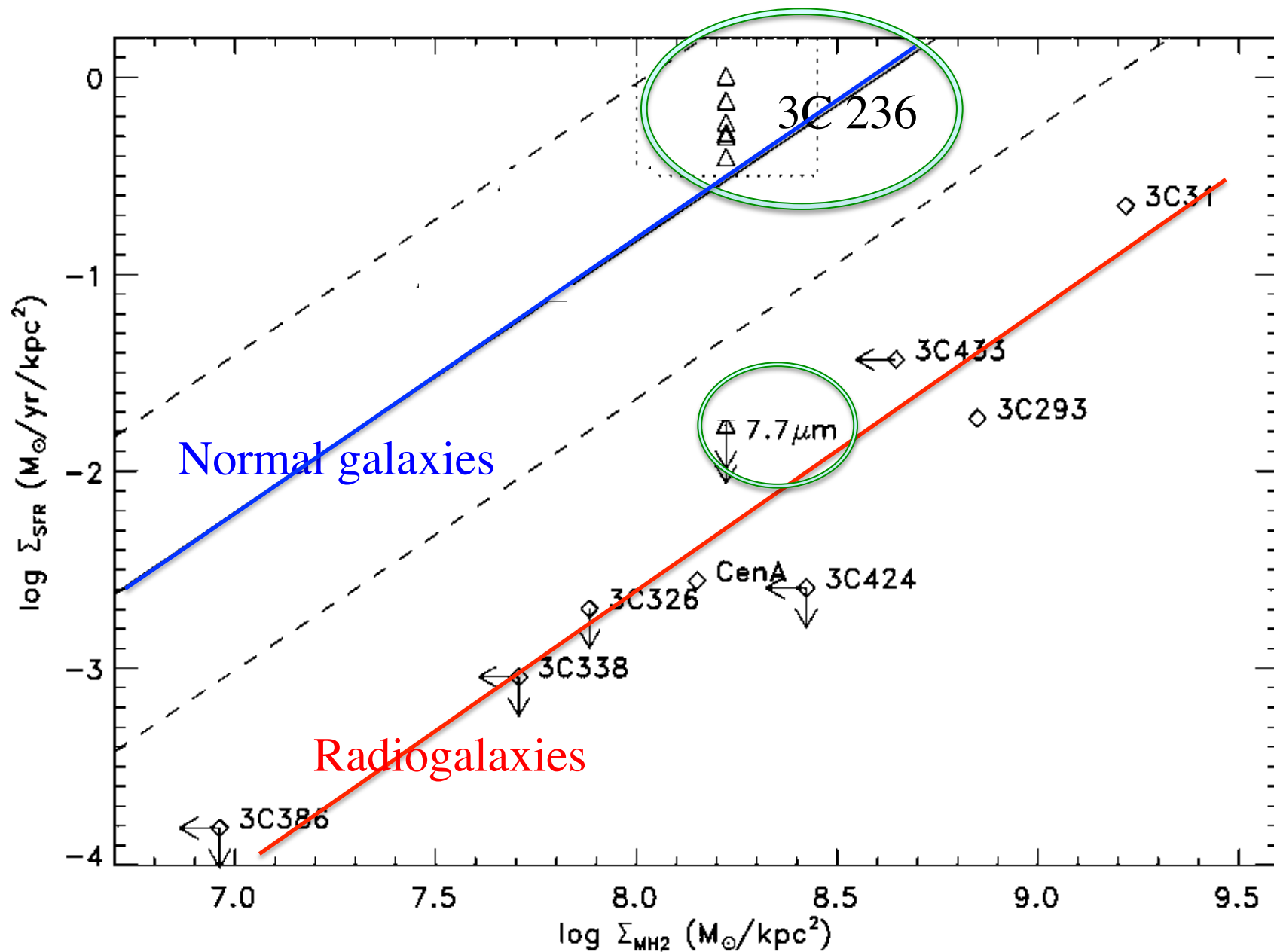


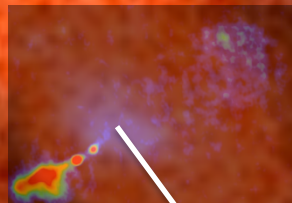


AGN feedback present

It could quench star formation.





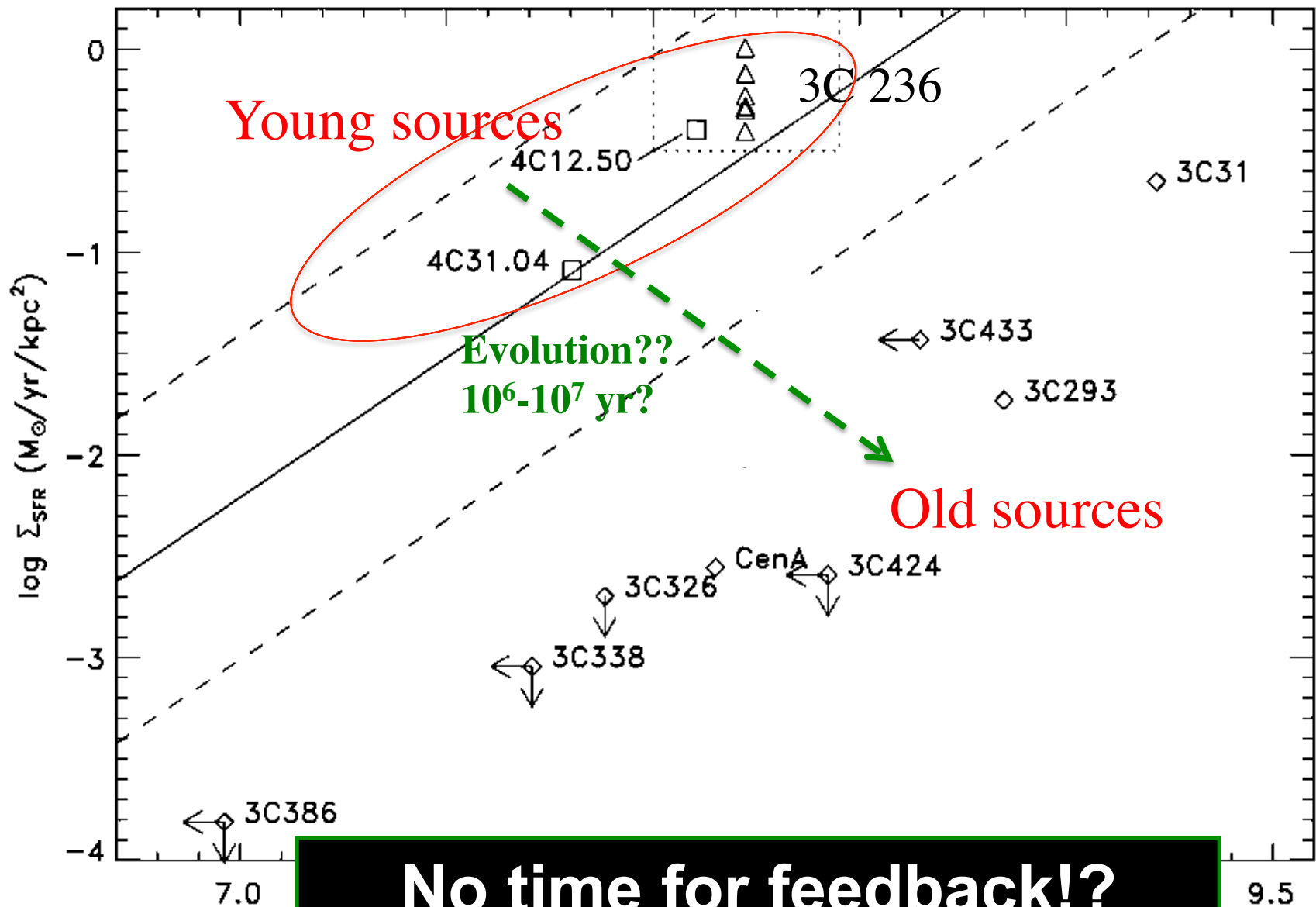


10^5 yr old AGN

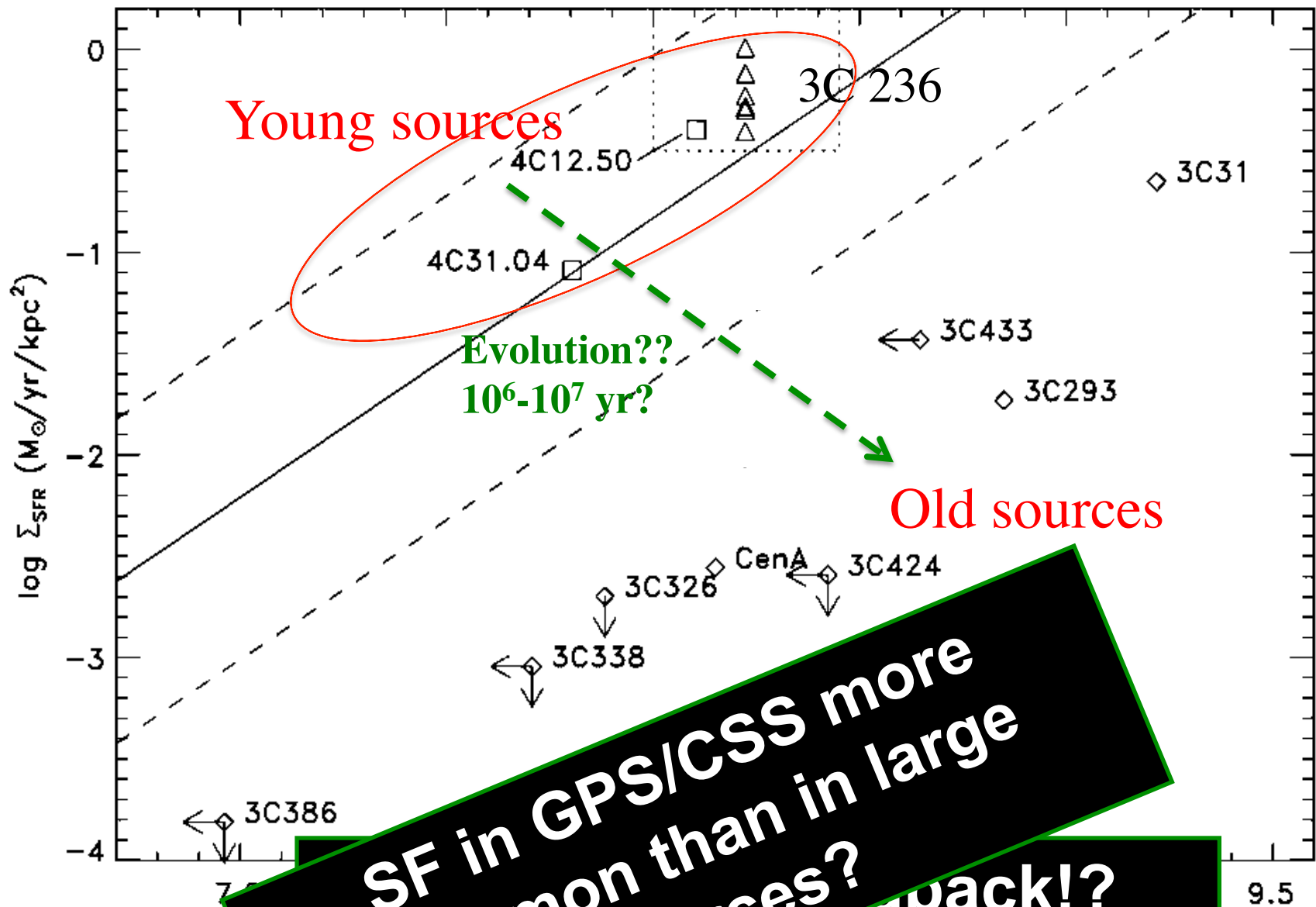
20000 km/s!!

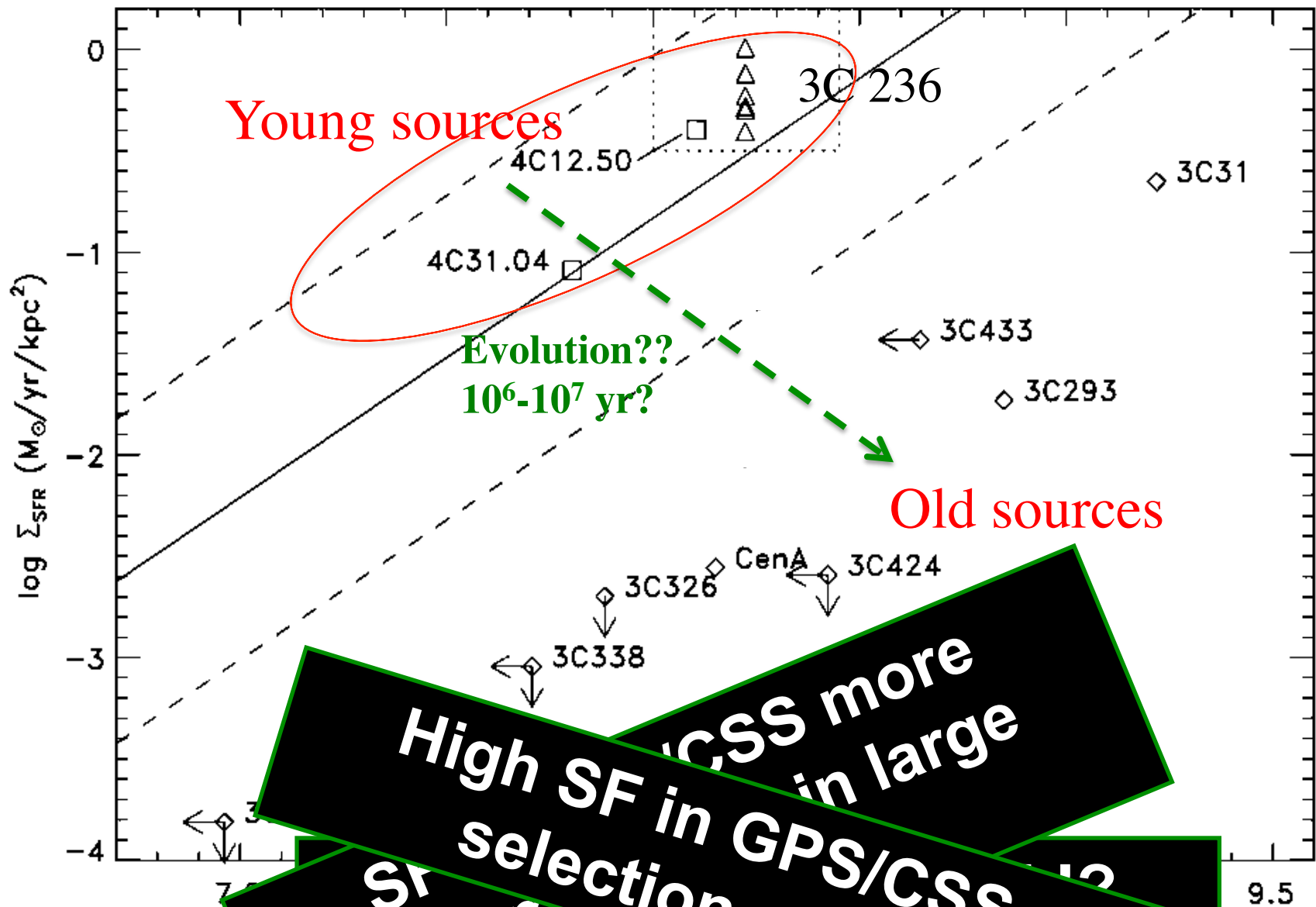
2 kpc

No time for feedback!?
Is age a factor?

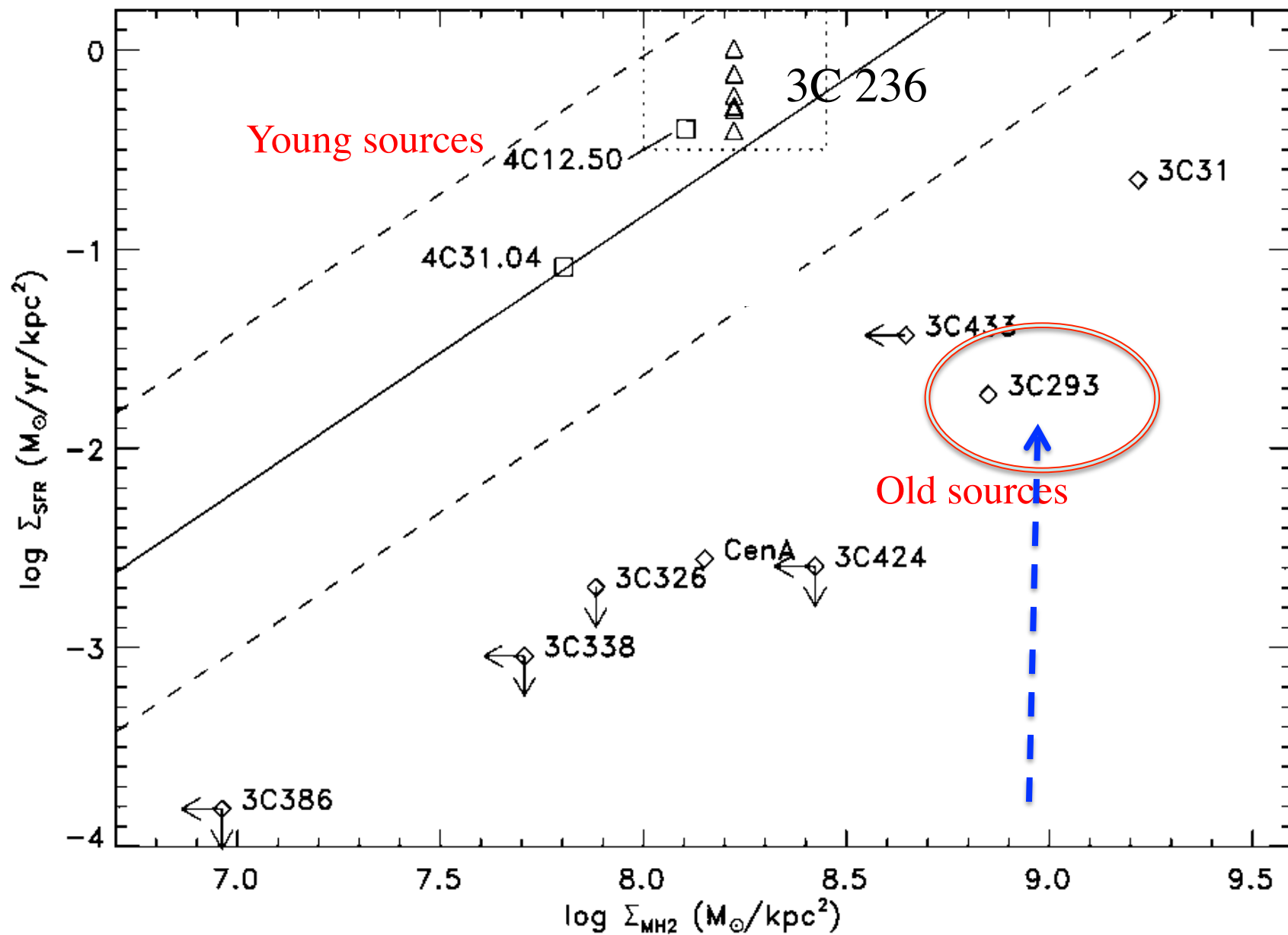


No time for feedback!?
Is age a factor?

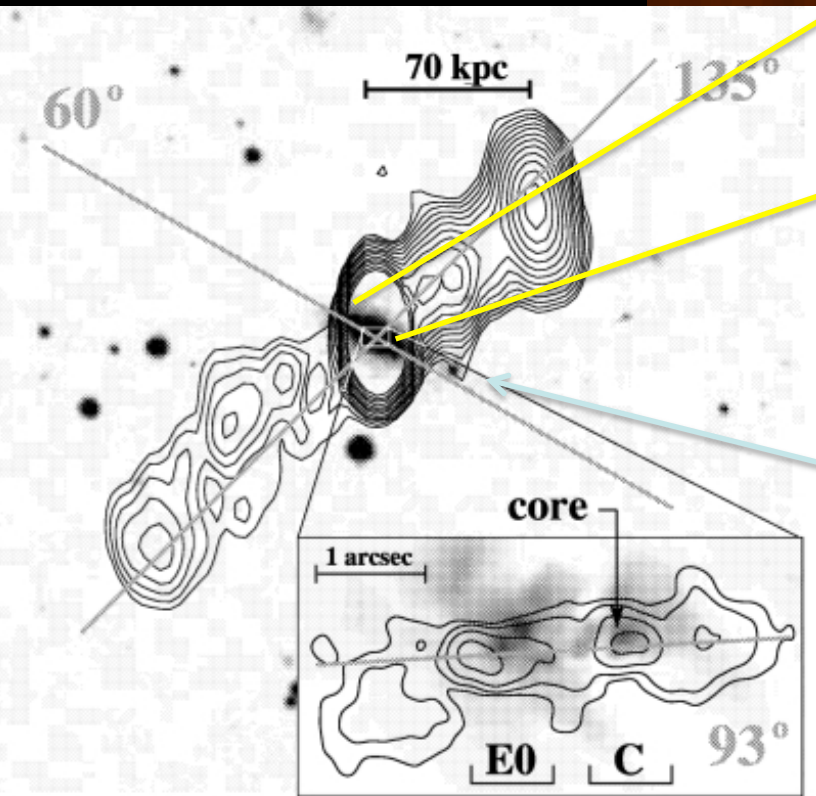
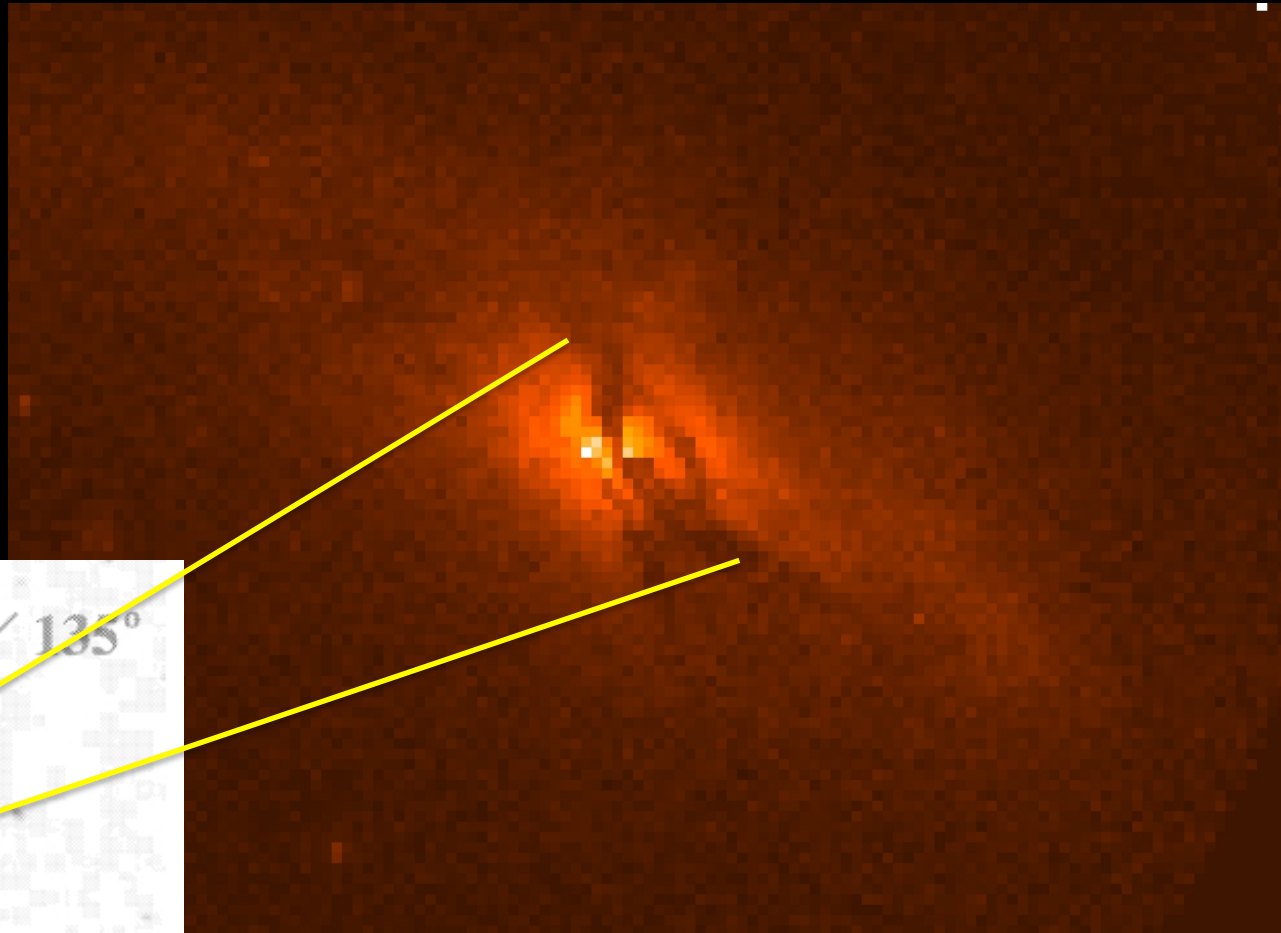




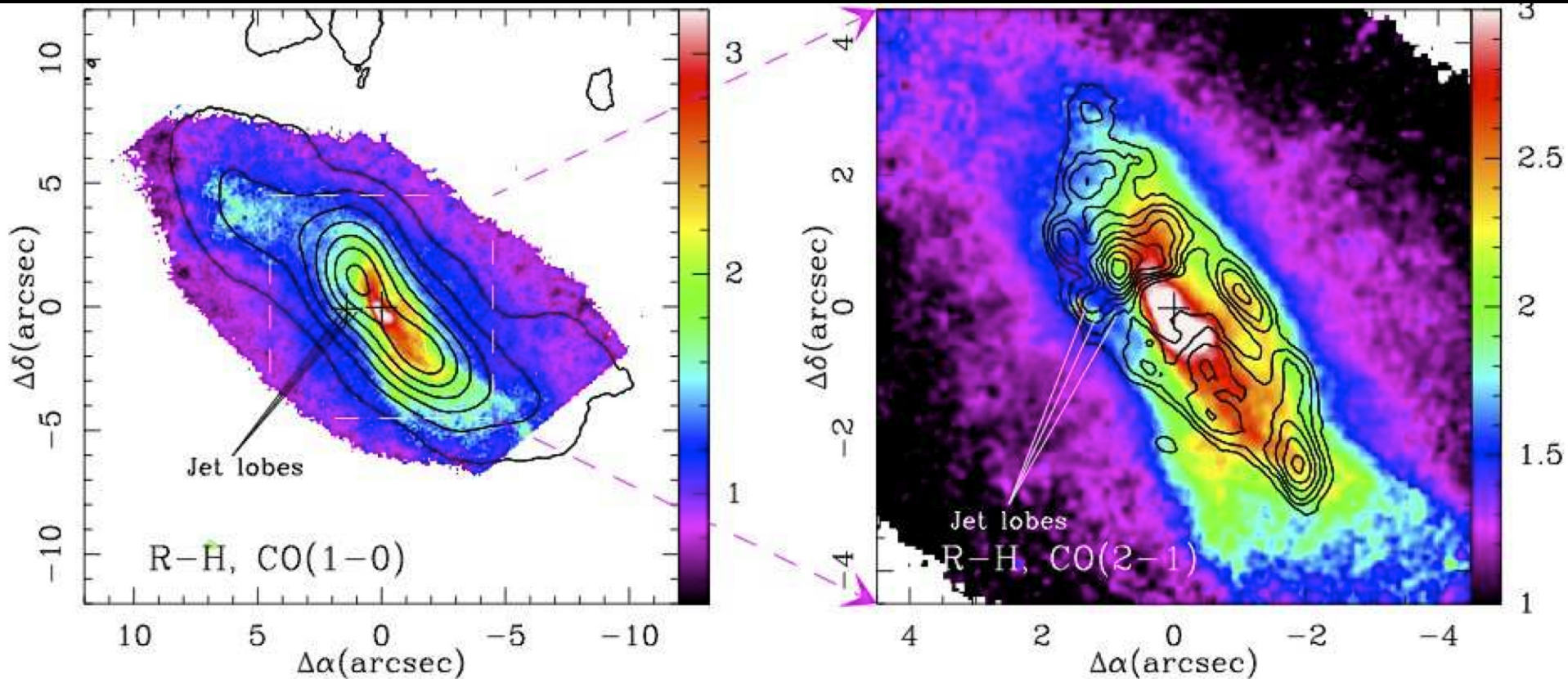
High SF in GPS/CSS more
selection effect?
comm source?



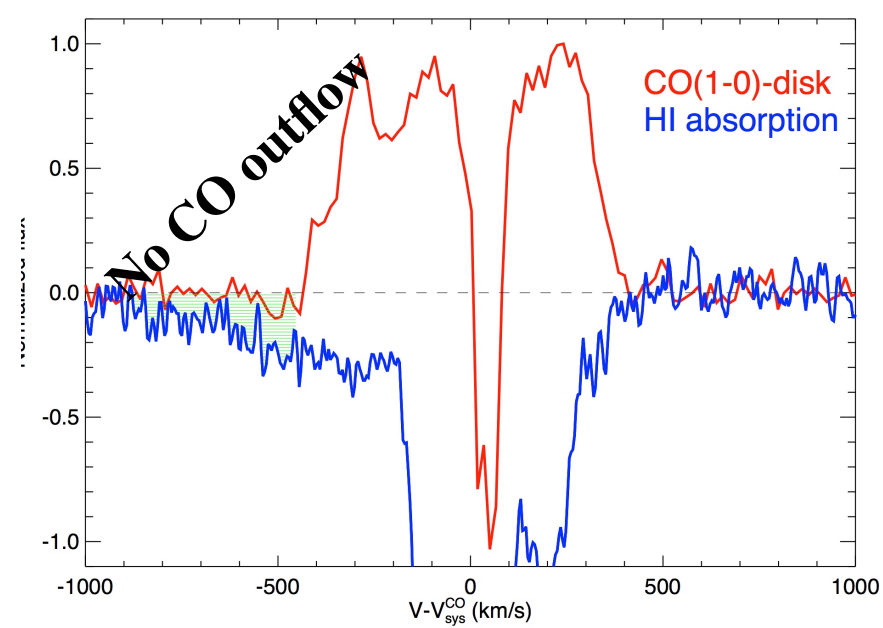
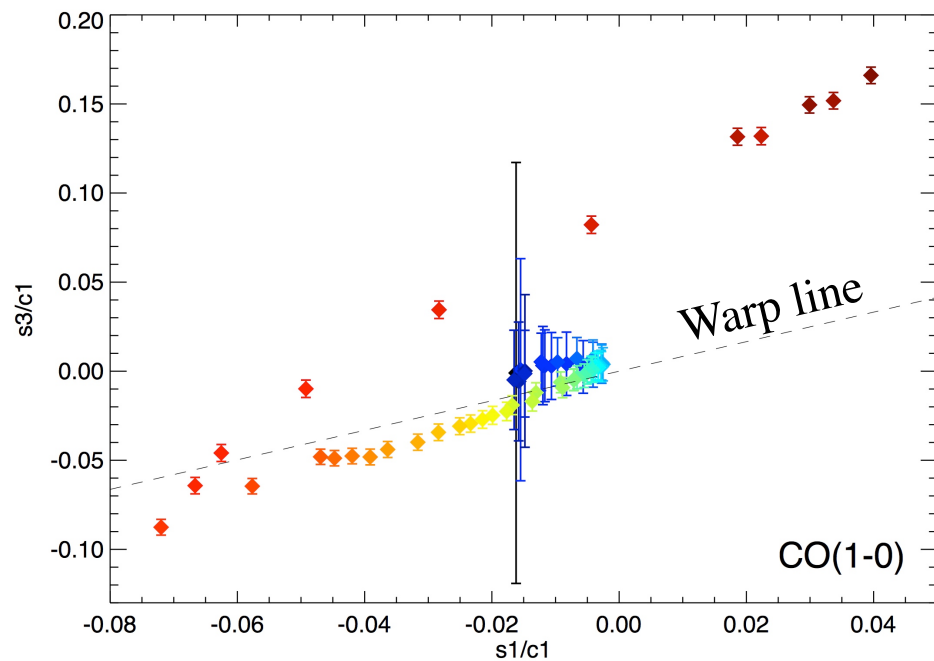
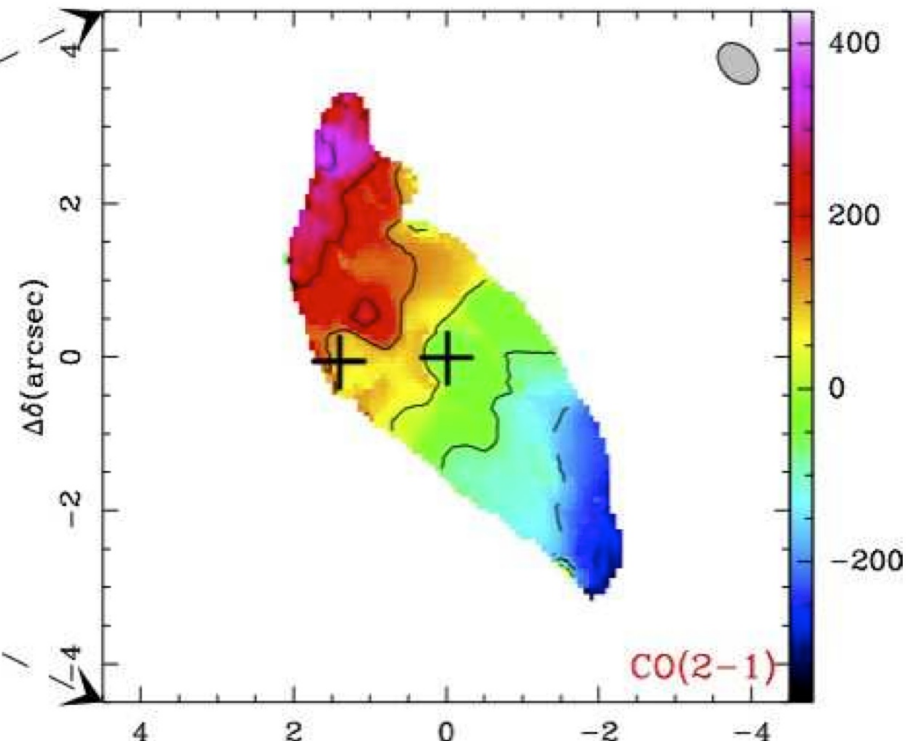
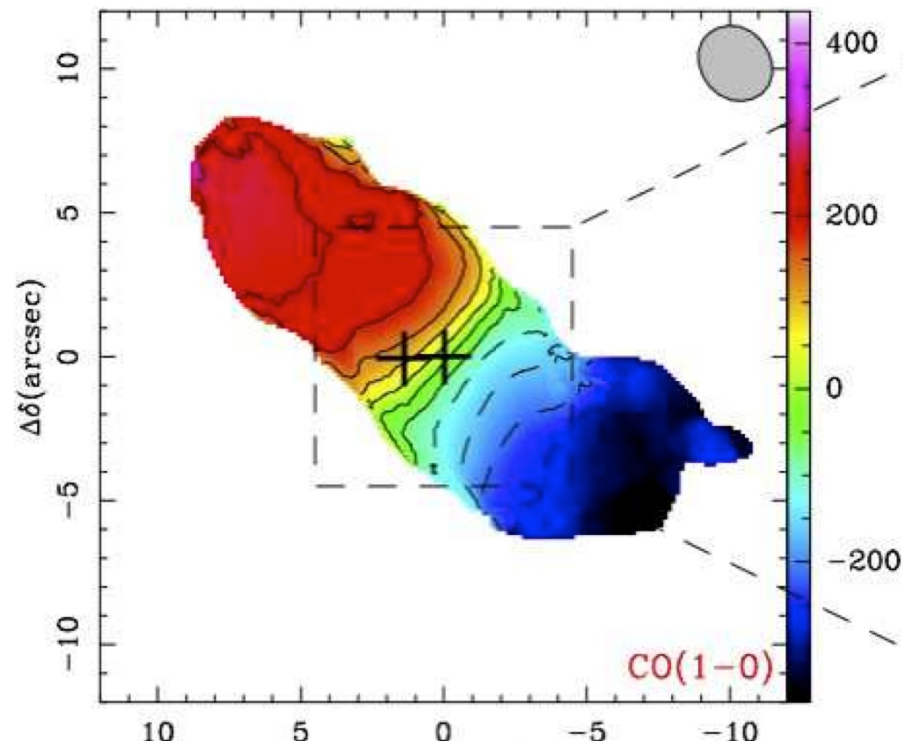
3C 293

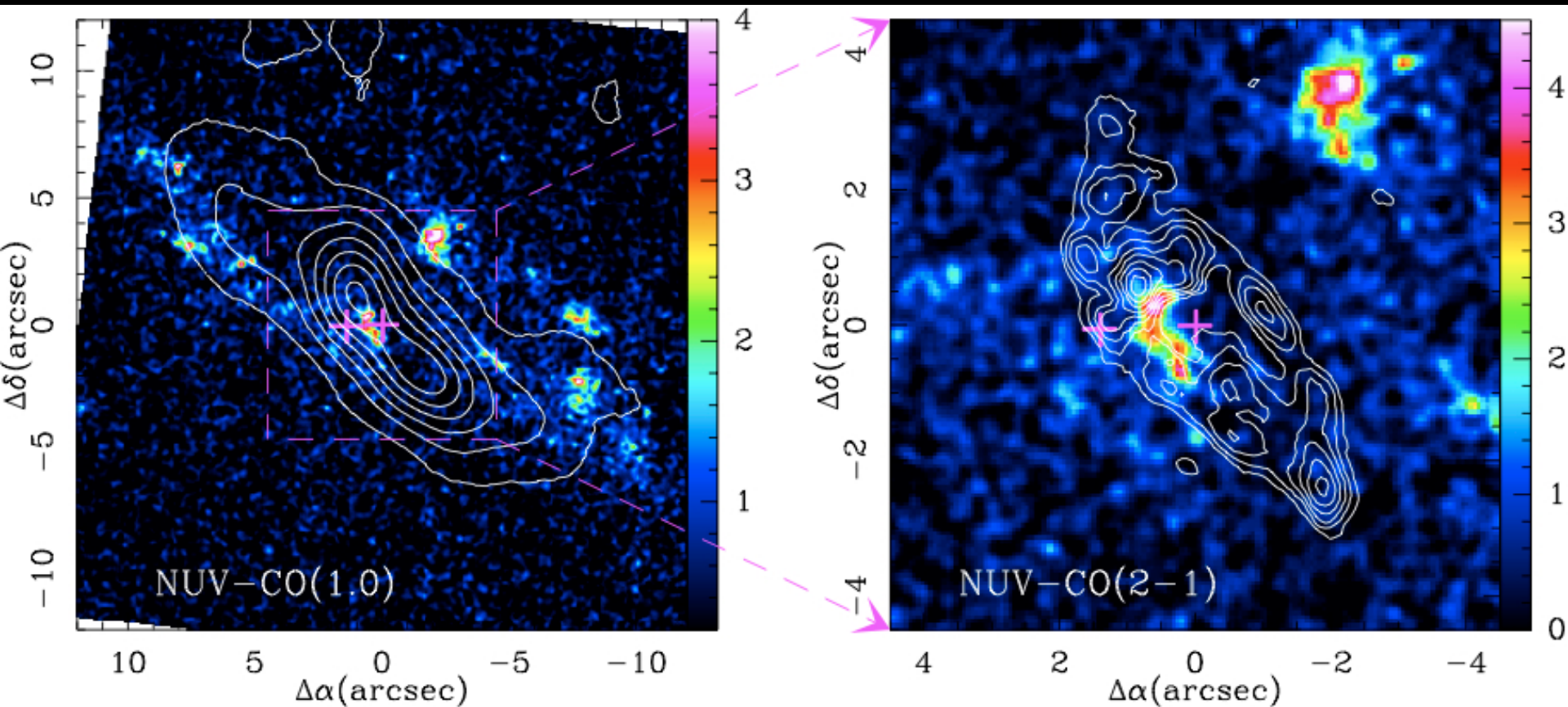


Interacting companion

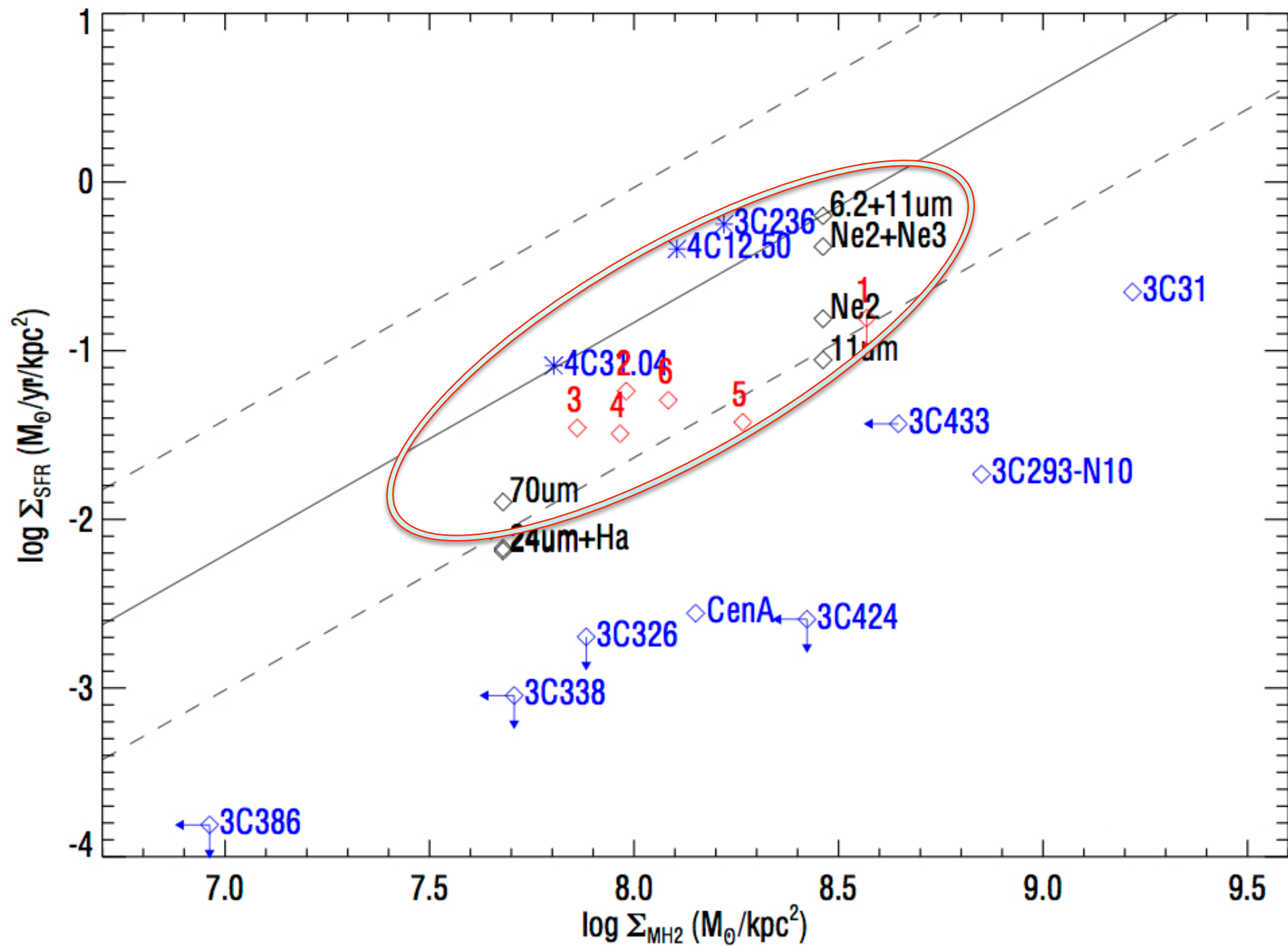


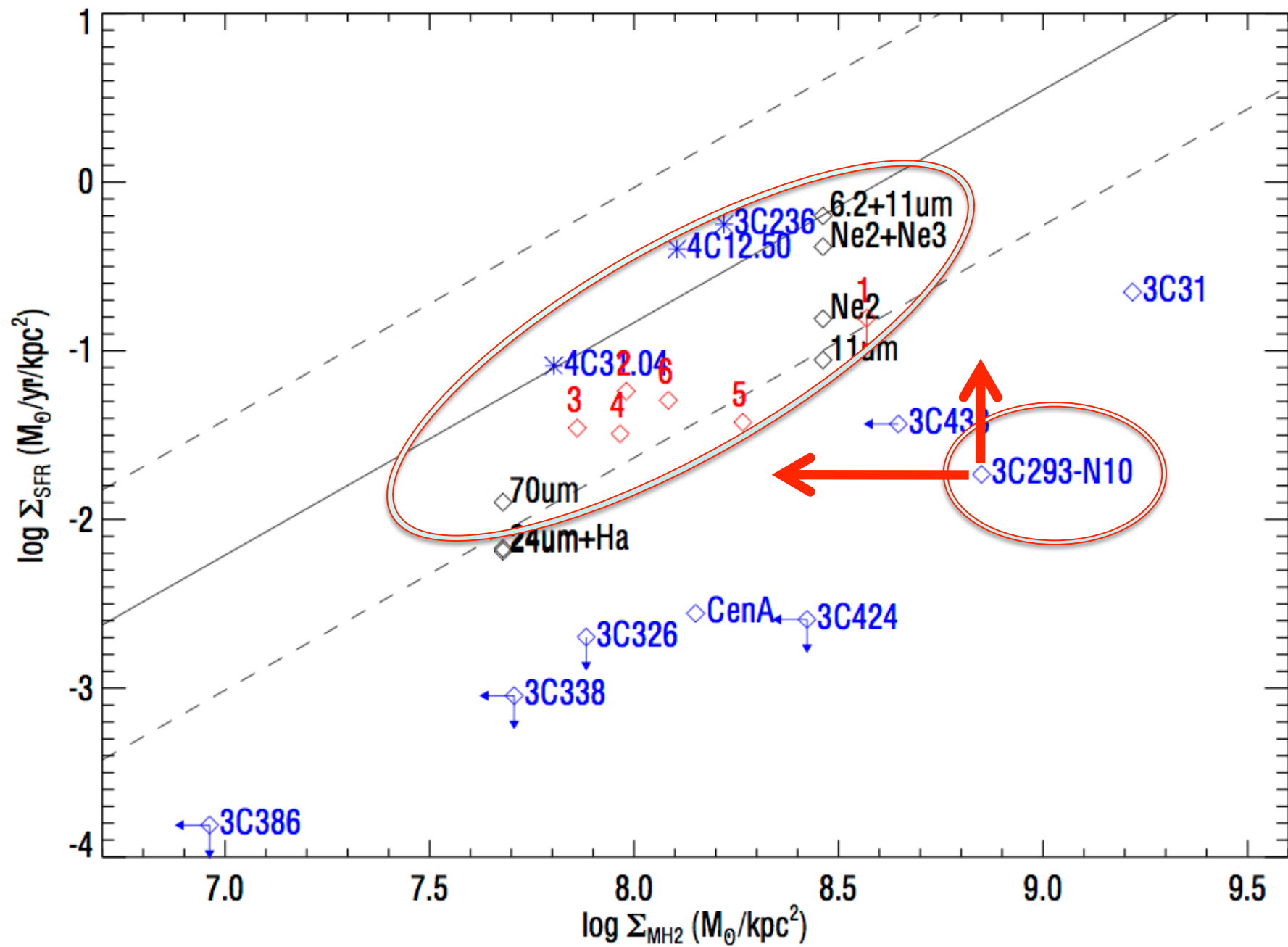
Molecular gas disk.
Associated to dust up to ≥ 15 kpc
Up to companion?





YSPs associated to the CO and dust disk
Disk is warped and tilted
No cold H₂ outflow



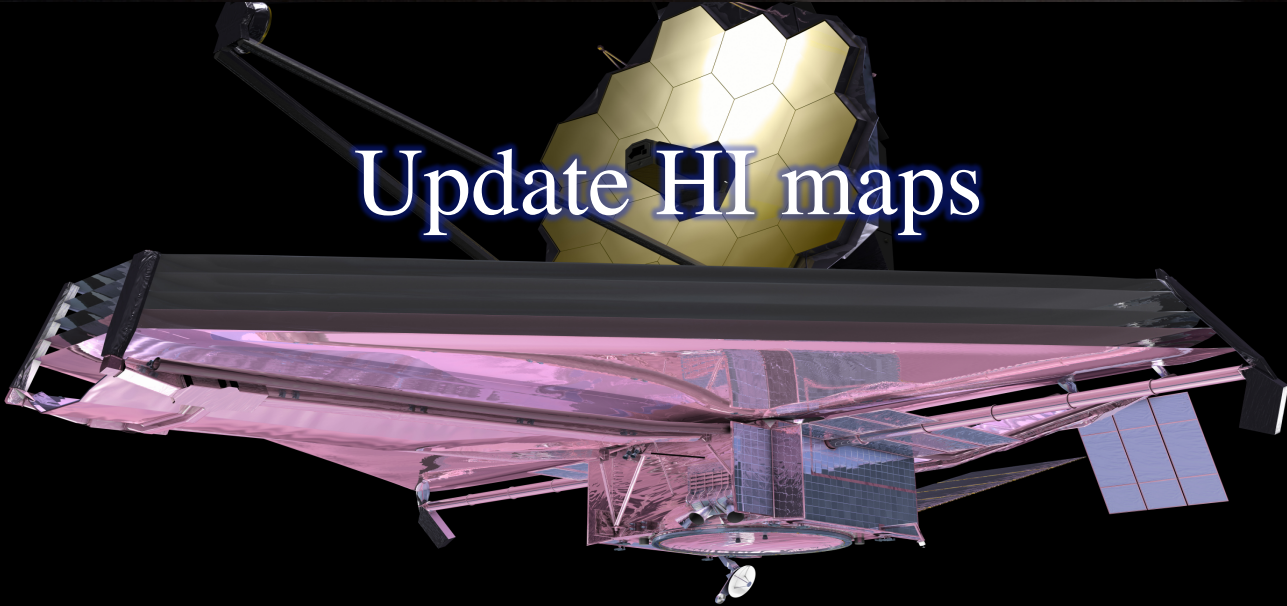




No feedback in cold molecular gas (yet?)

This image shows a series of large white radio telescope dishes arranged in a line on a dark, flat landscape under a starry night sky. The dishes are angled towards the sky, and the background is filled with numerous stars.

Good SFR tracer?



Update HI maps

This image shows a space telescope with a large, gold-colored hexagonal mirror and a long, pinkish-purple body. The telescope is oriented horizontally against a black background.

For the coffee break

Star-formation efficiency of radio galaxies??

GPS/CSS: Positive/negative feedback?