
Effect of AGN on star formation with ALMA and EAGLE

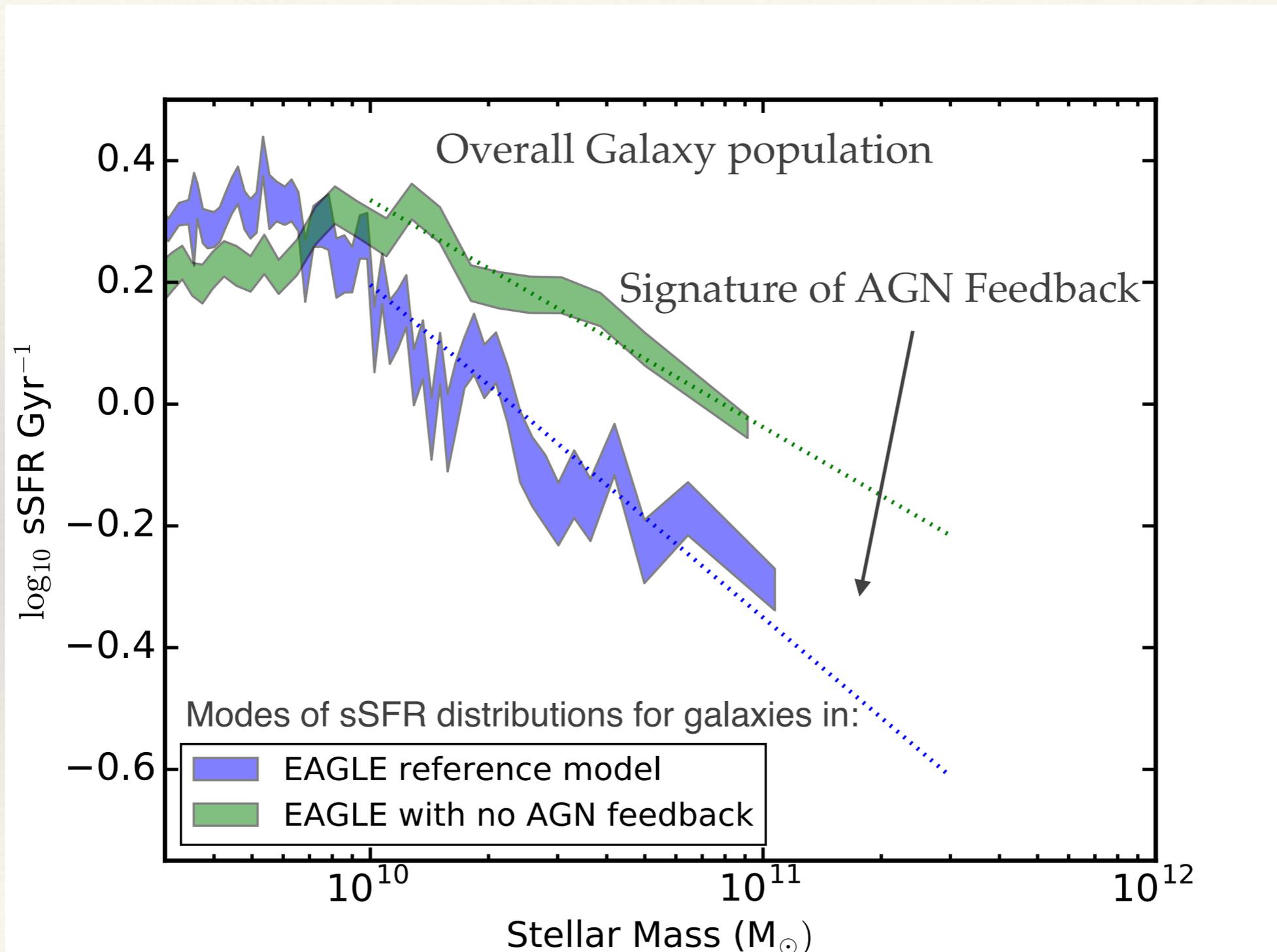
JAN SCHOLTZ
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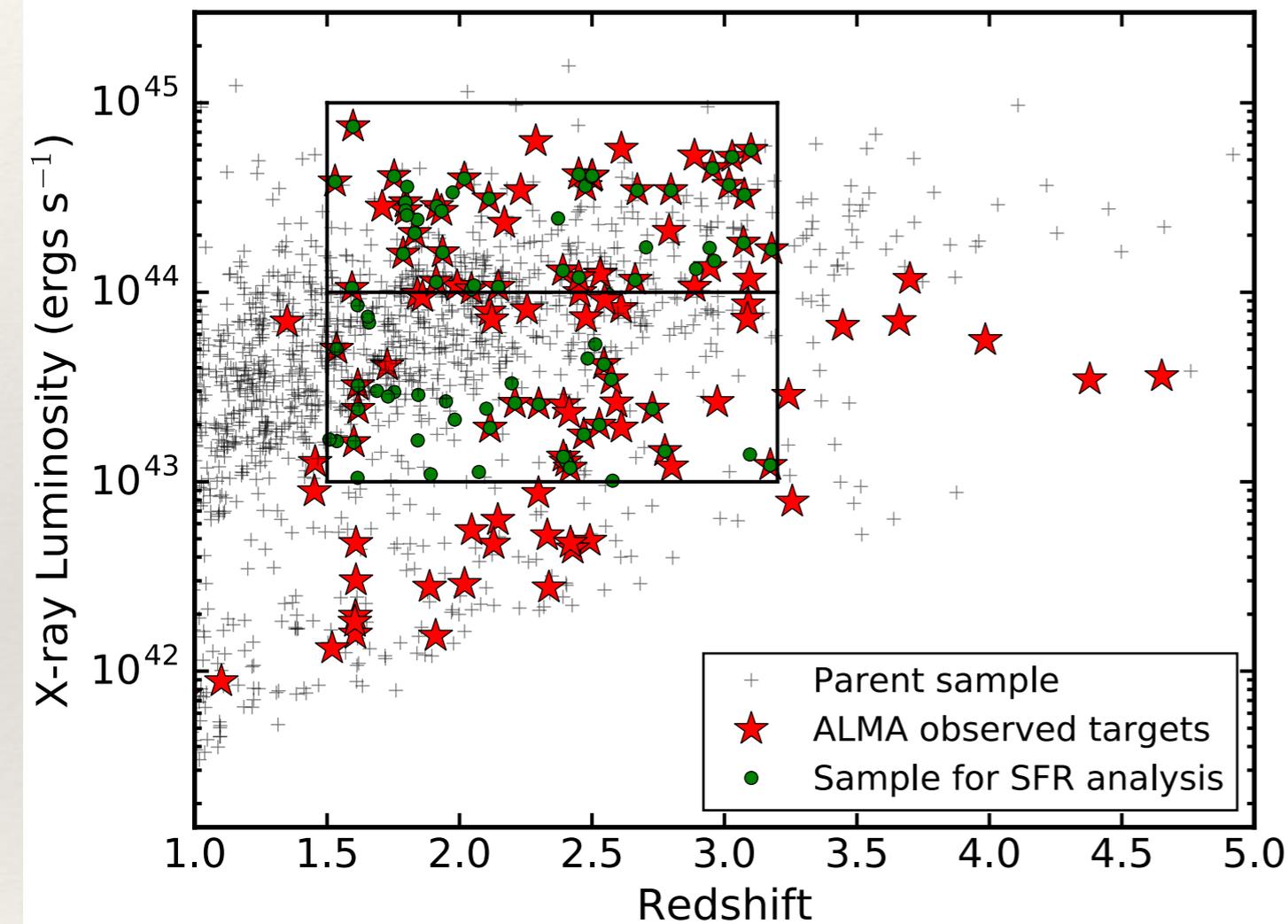
Dave Alexander, David Rosario, Chris Harrison and others

DEX- XIII Edinburgh 2017

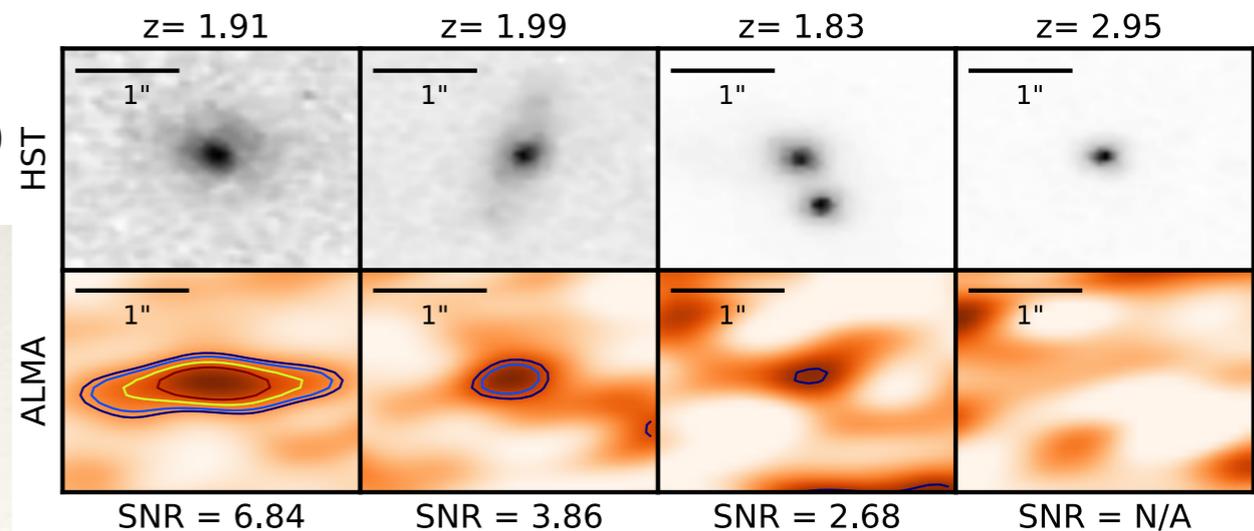
Evidence of Feedback in Simulations



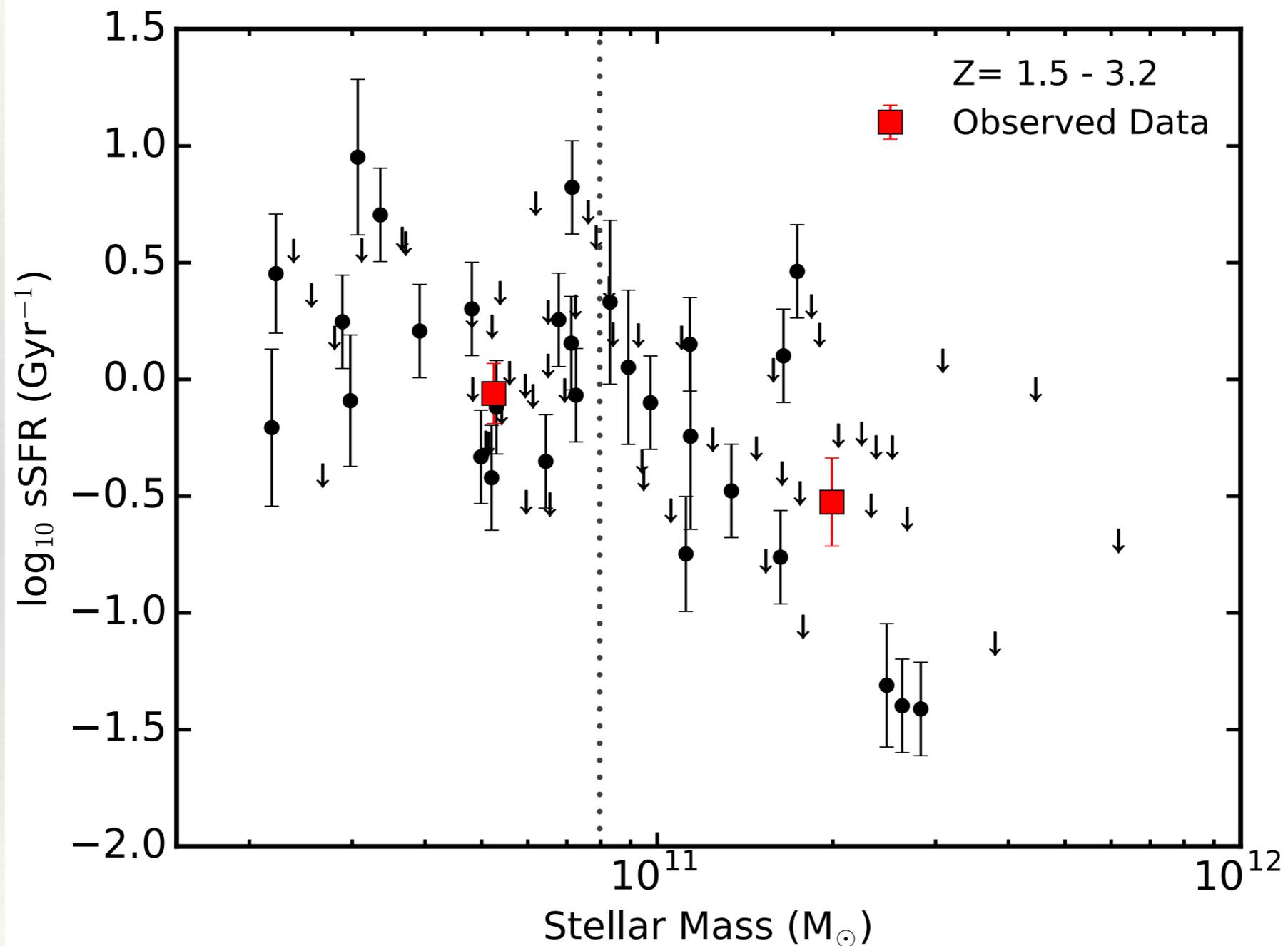
Observational Data



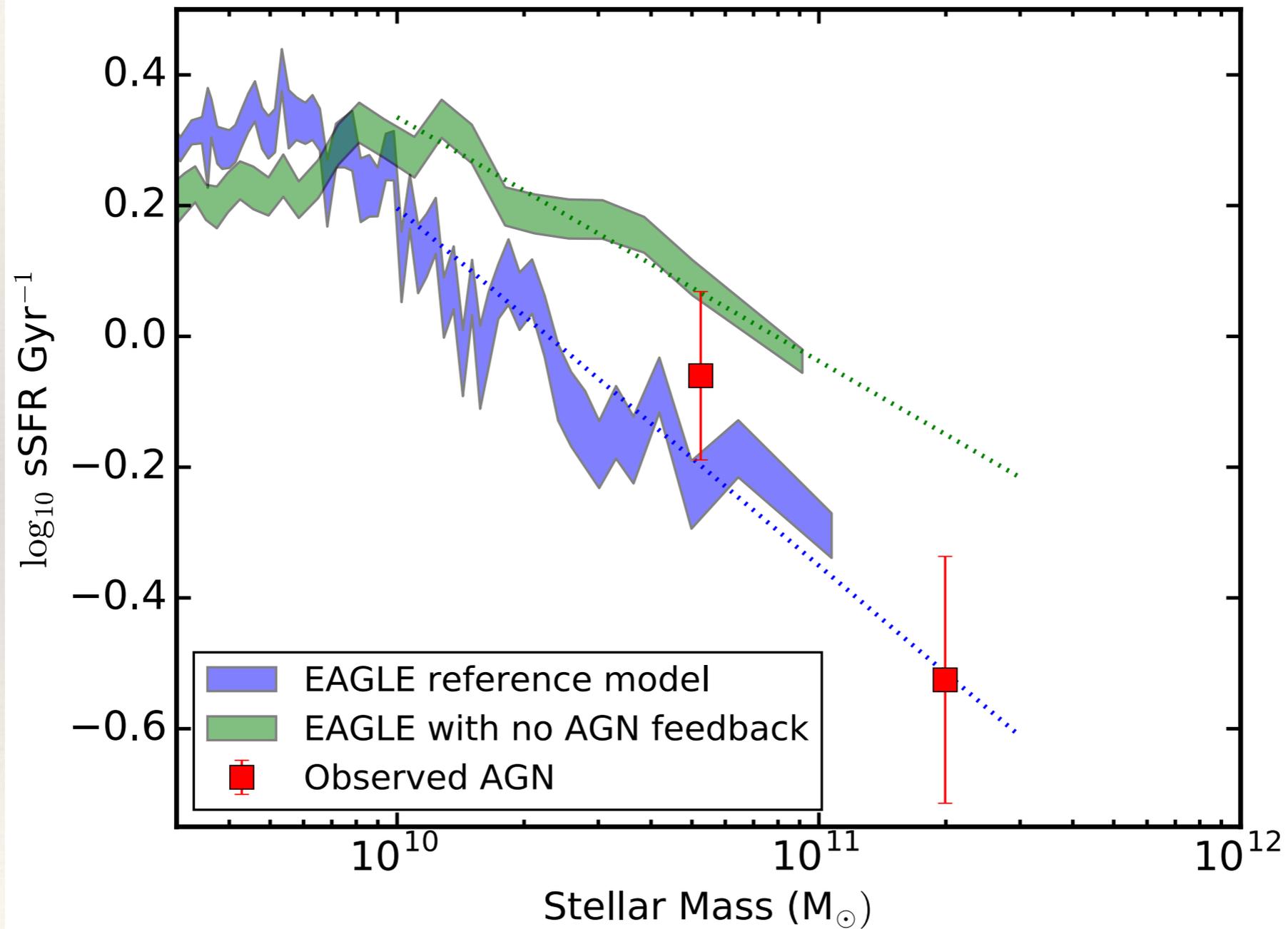
- ❖ 89 luminous AGN in redshift 1.5 - 3.2, observed with ALMA
- ❖ We fitted SF and AGN templates to ALMA, HERSCHEL and MIPS photometry



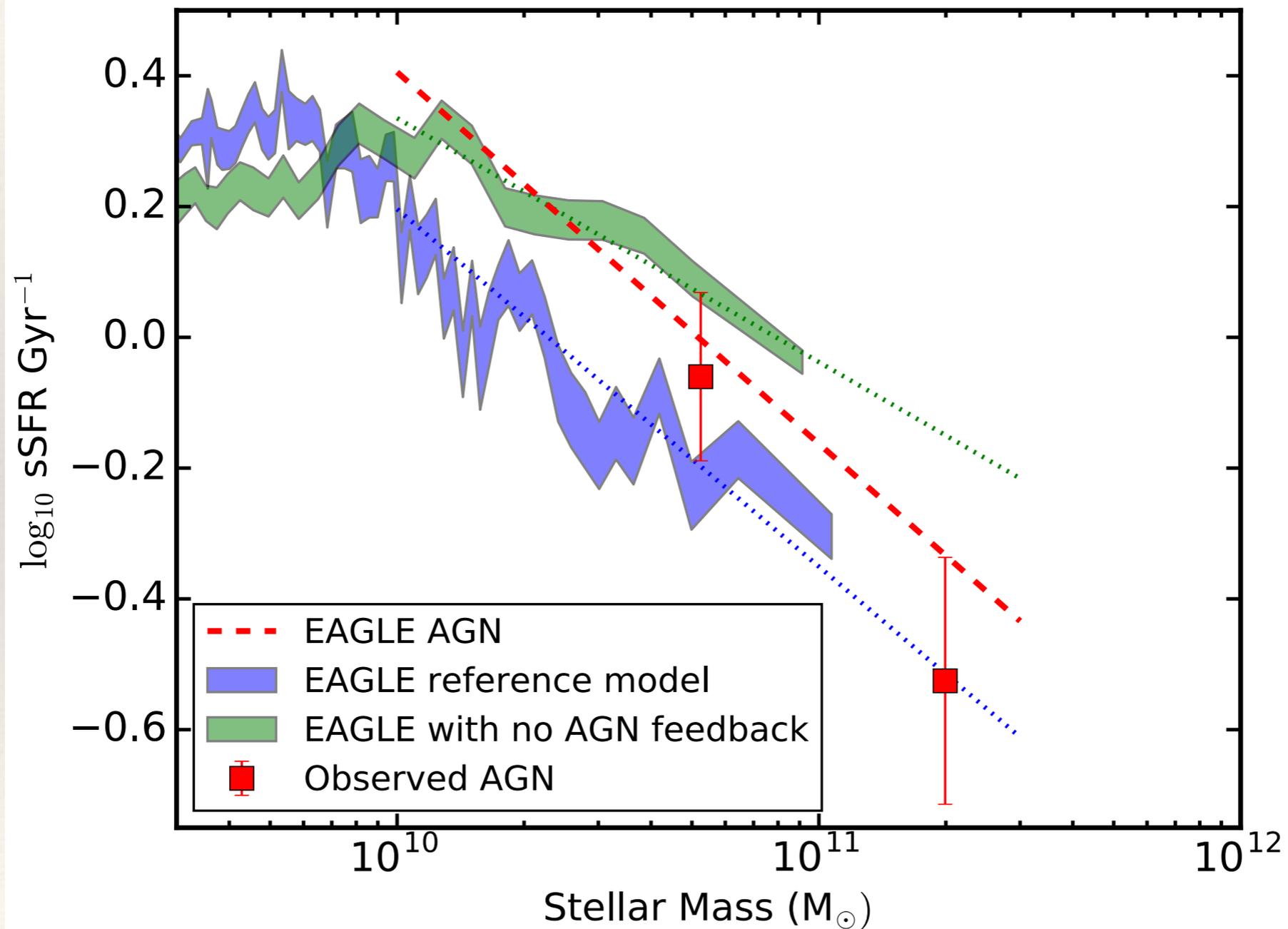
AGN show decreasing sSFR with Stellar Mass



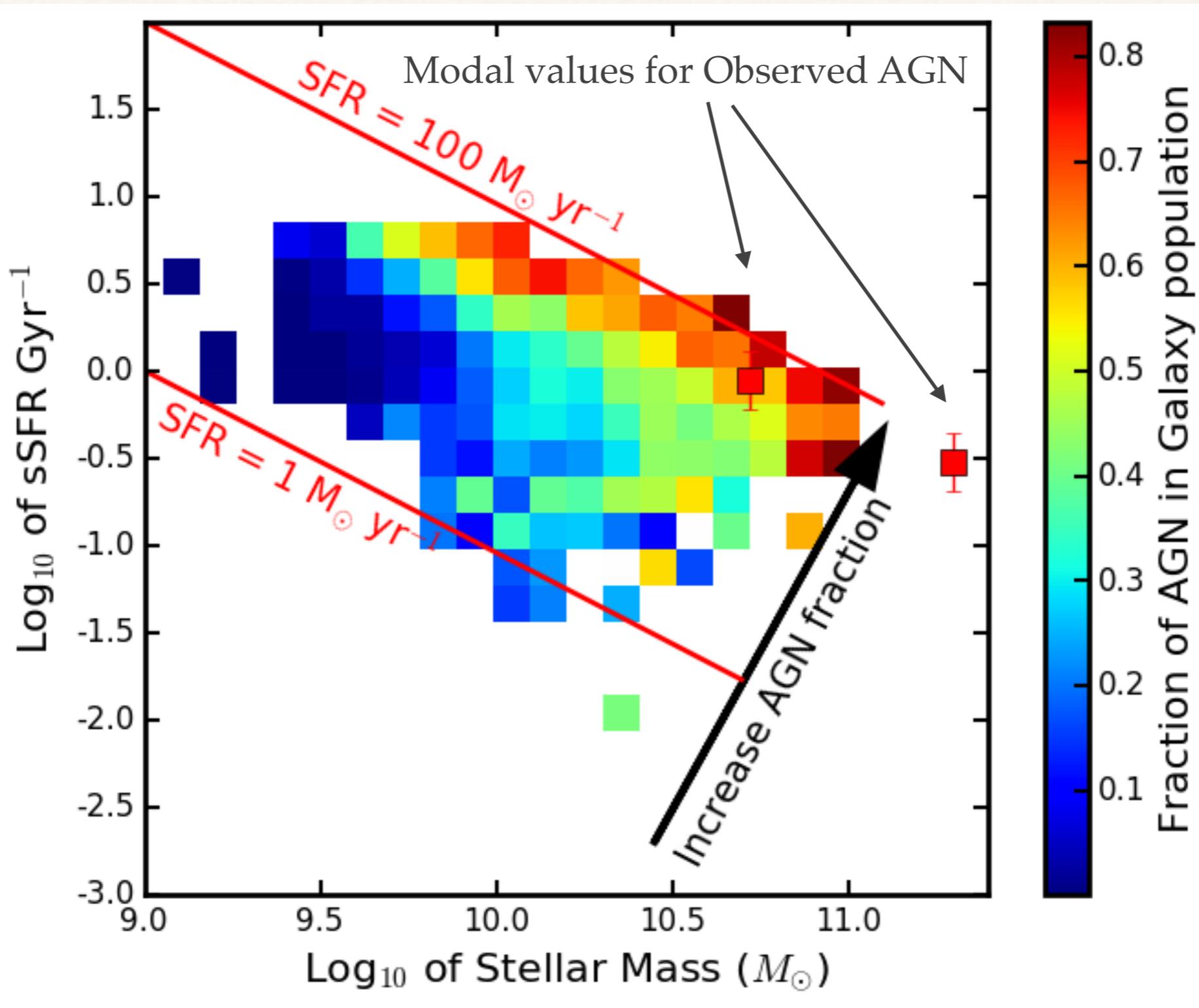
Evidence of Feedback



Evidence of Feedback



Where are AGN?



Summary

- ❖ We used to different versions of EAGLE and ALMA observations to investigate effect of AGN Feedback
- ❖ AGN feedback can be seen in the decline of sSFR with stellar mass
- ❖ By selecting AGN, we also select star-forming galaxies boosting the modes of distributions of s(SFR)
- ❖ talk to me about more results

sSFR vs X-ray Luminosity

