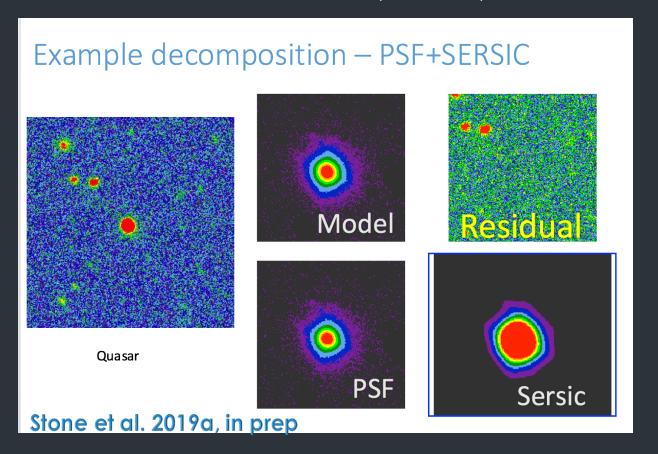
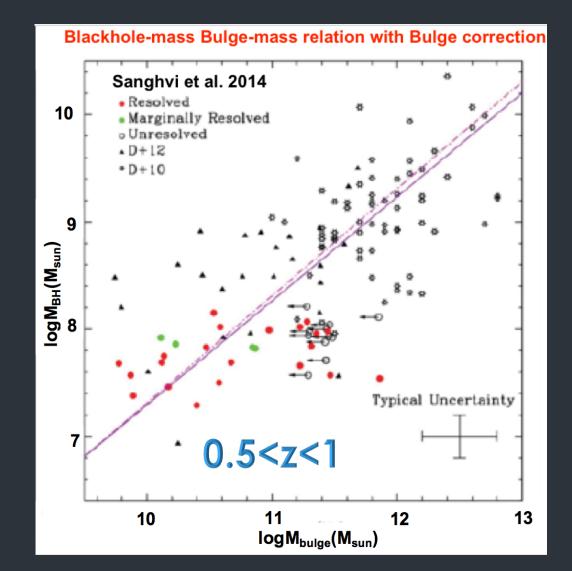
Low mass end of black hole - host galaxy relations of quasars

- ▶ low mass end of BH-galaxy relation has been studied until $z\sim1$ and $\log M(BH)>7-8 \log (M_{sun})$
- here we target higher z interval, and the lowest BH masses selectable from SDSS
 - ▶ low BH mass $log(M_{BH}) \sim 8.2-8.5 log(M_{sun})$
 - redshift interval of 1<z<2</p>
 - NIR H,Ks bands, HAWK-I, VLT (ESO, Chile)

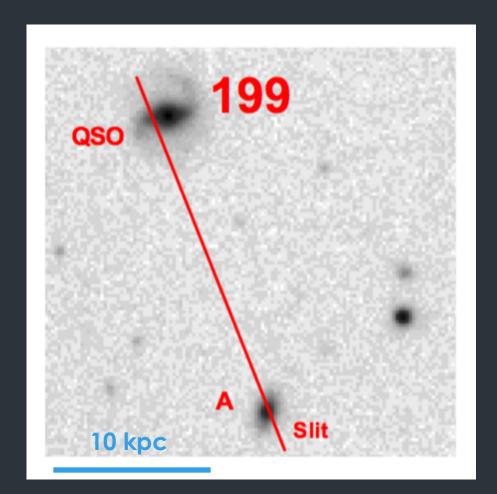


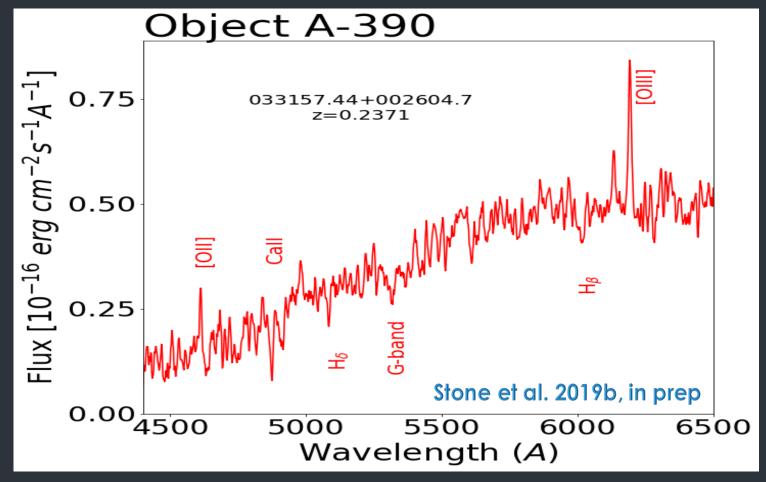


Close environments of low-redshift quasars

This project aims to study the link between the QSO activity and recent star formation in QSO-hosts and their companion galaxies at z < 0.5.

- 36 quasar fields selected from a large, homogeneous sample (Falomo+2014)
- Optical spectroscopy with NOT (23) and GTC (13)
- Preliminary results, Bettoni et al. 2017 and this work indicate no clear evidence for higher SF
- Upcoming: MOS with NTT/EFOSC2 & Obscured AGN companions





Thank you!

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P.S. Interested in Programming, Community Engagement, Mentorship, Communicating Astronomy to the Public, and Supporting Diversity in STEM



