

# Multi color imaging of low redshift QSO hosts and their environments.



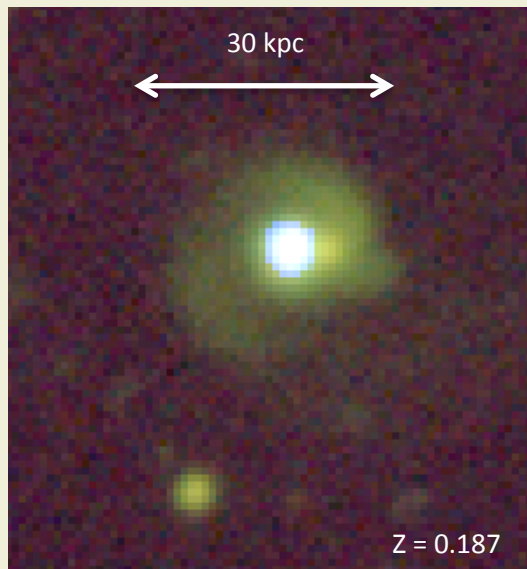
D. Bettoni<sup>1</sup>, R. Falomo<sup>1</sup>, J. Kotilainen<sup>2</sup>, K. Karhunen<sup>3</sup> and M. Uslenghi<sup>4</sup>

(1) INAF – Osservatorio Astronomico di Padova, Italy

(2) Finnish Centre for Astronomy with ESO (FINCA), University of Turku, Finland

(3) Tuorla Observatory, Department of Physics and Astronomy, University of Turku, Finland

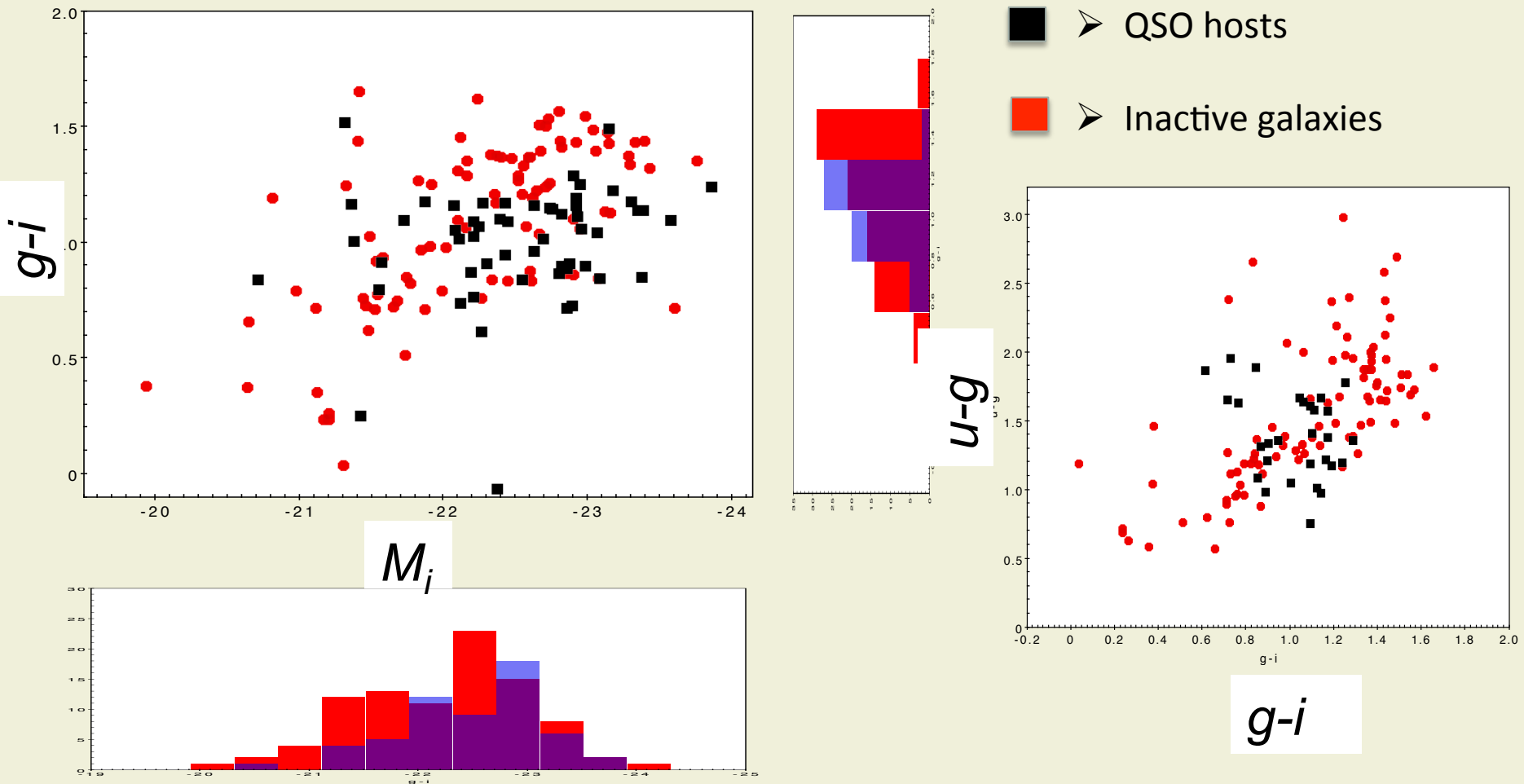
(4) INAF-IASF, Milano, Italy



The  $u, g, r, i, z$  colors of low redshift ( $z < 0.3$ ) QSO host galaxies from homogeneous dataset of 60 QSO from SDSS Stripe 82 .

- Comparison of CMD and  $(u-g, g-i)$  diagram for QSO hosts and inactive galaxies.
- Comparison of frequency and properties of companions at  $d < 50$  kpc

Color-magnitude of QSO host galaxies compared with that of inactive galaxies.



$u-g$  color of QSO hosts are similar to that of inactive galaxies. We find no significant difference between the two samples for the number and the color of close ( $d < 50$  kpc) companion galaxies. These results indicate that, contrary to past suggestions, *for low  $z$  QSO there is a very modest connection between recent star formation and the nuclear activity.*