

Stacking analysis of quasar host galaxies at $z > 1$ with Subaru Hyper Suprime-Cam

P36

Yuya Saeda, Toru Ishino, Yoshiki Matsuoka (Ehime University)

Our aim is to reveal when and how the AGN activity is ignited in the early universe ($z > 1$).

Due to high brightness of quasars, it is difficult to observe the host galaxies.



We investigated the average properties of the host galaxies by stacking analysis.

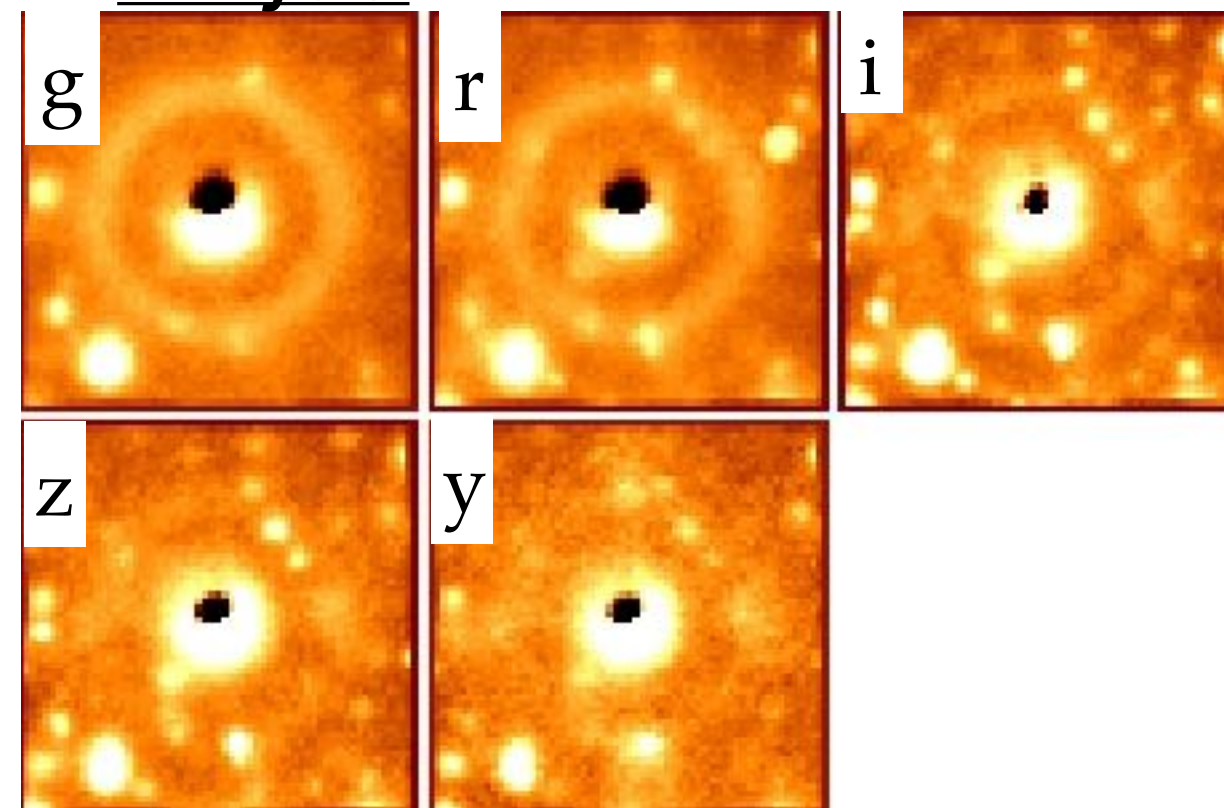


Fig.1: result of stacking at $1 < z < 2$

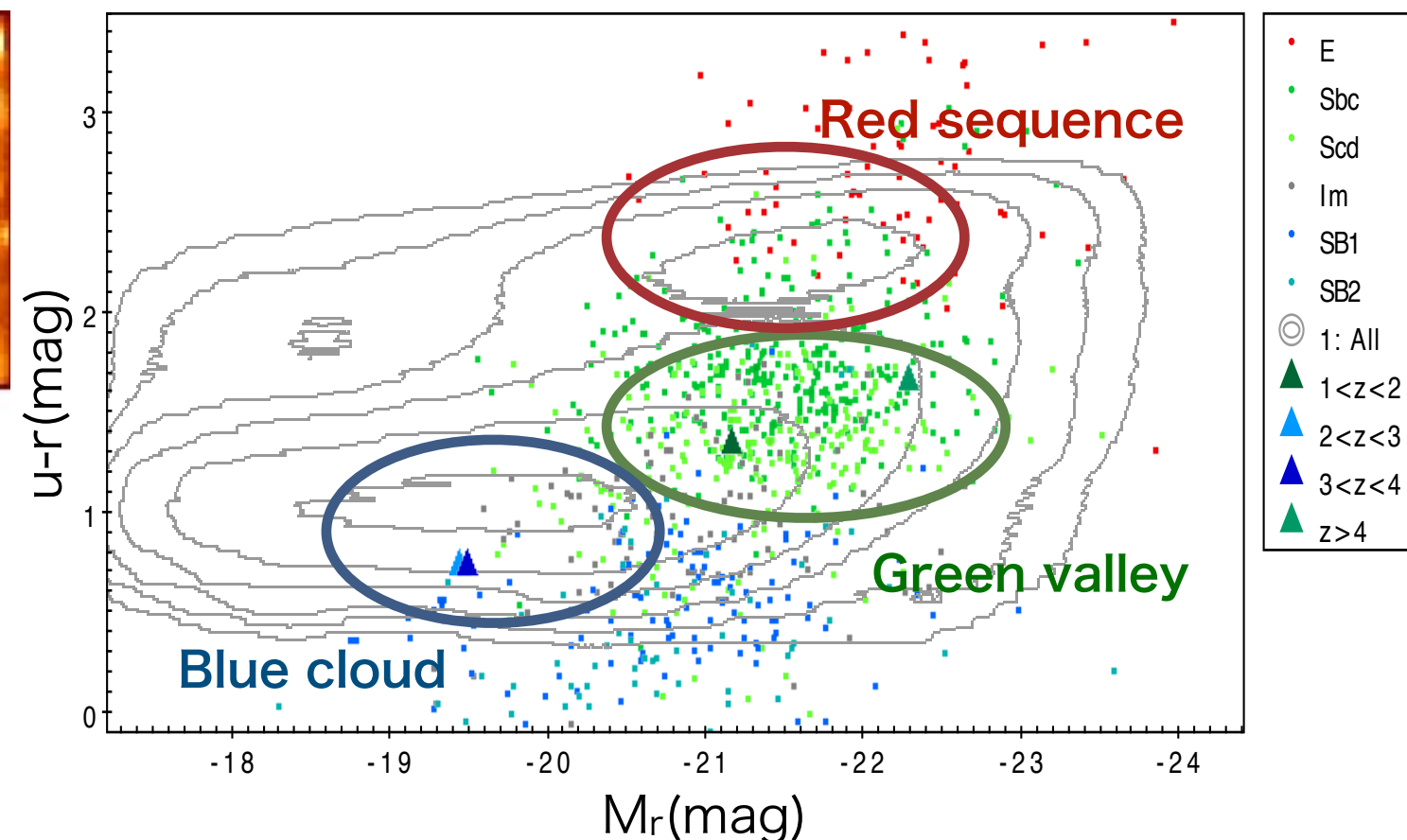


Fig.2: color-magnitude diagram

Quasar host galaxies at $z > 1$ are located on blue cloud to green valley.