Discussion on the Selection and <u>Analysis</u> for z<6 QSOs

- QSO/AGN luminosity function
- QSO-QSO clustering
- Small scale QSO pairs, (Lensed QSOs)
- QSO-galaxy (dividing into different types) clustering, QSO-cluster clustering
- galaxy distribution vs. QSOs

With these observables, regarding SMBH properties, what can be "directly/indirectly" derived ? what can be "directly/indirectly" constrained ? are still issues.

Accretion rate, Duty-cycle, Halo Occupation Distribution, Trigger mechanism, bias, galaxy ancestor/descendant analysis

Understanding through modeling (HOD degeneracy) is necessary.

Preparation for 1st year papers ?

Discussion on the Selection and Analysis for z<6 QSOs

Selection method for z>4 QSOs : 2 colors, phot-z, or selection with probability.

advantages and disadvantages for each selection need to be qualitatively understood.

Completeness of the stellarity selection for "QSOs" ?

Accuracy of photometric redshifts as a function of redshift. Further study with larger sample is necessary, especially above z>3.

SDSS sample ?

Improving photometric redshift for z<3 AGNs ? or multi-wavelength selection ? or use SDSS sample (with HSC faint galaxies) ?

Valiability selection, Effect of valiability on color selections, zphot, ...

Feedback to Furusawa-san ? : valiability, multi-wavelength,,,,vignetting, exptime, survey area