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## Quasar spectral decomposition & survey analysis

- Spectral decomposition analysis from large public surveys (SDSS, DESI) to extract the continuum and emission-line properties
- Statistical studies of SMBH mass and improved systematic redshifts across the universe

## AGN photoionization modeling

- Modeling broad emission line regions within the LOC framework and exploring the intrinsic dispersion in the AGN size-luminosity relation
- Connecting emission-line properties to the ionizing continuum and BH accretion physics

