

## **Observational Constraints on Reionization from High-z Galaxy Studies**

**Esther Hu**, University of Hawaii

**Abstract** Information on the epoch of reionization can be obtained both from detailed spectroscopic studies of individual high-redshift galaxies and from the number density of confirmed emitters found in wide-field, high-z Lyman alpha galaxy searches. In this talk, I present results from wide-field spectroscopic observations made with the DEIMOS spectrograph on Keck. The luminosity function of Lyman alpha galaxies indicates that star formation rates may remain substantial out to  $z \sim 5.7$ . High-resolution spectra of a  $z=6.56$  lensed galaxy shows a kinematic structure with a sharp blue edge, but extended red wings, which is not consistent with a surrounding neutral IGM.