



Other Conference Item

Observational constraints on reionization from high-z galaxy studies

Author(s):

Hu, Esther

Publication Date:

2003

Permanent Link:

<https://doi.org/10.3929/ethz-a-004582580> →

Rights / License:

[In Copyright - Non-Commercial Use Permitted](#) →

This page was generated automatically upon download from the [ETH Zurich Research Collection](#). For more information please consult the [Terms of use](#).

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.