

ASTR 680
Practice questions for lecture 21
Frontiers: Sunyaev-Zeldovic effect

1. What is the typical optical depth to Compton scattering through a cluster?

2. Why is the magnitude of the S-Z effect independent of redshift, assuming optimal observing strategies and nonevolving clusters?

3. How can the S-Z effect be used to measure the Hubble constant, and what complications can arise?