

## **High z galaxies and AGN**

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**Abstract** I will first describe observations of the Lyman alpha forest in a very large sample of  $z=4-6.4$  quasars. These observations show a smooth evolution in the forest transmission which is not particularly supportive of the idea that reionization occurred at  $z=6.2$ . The observations determine the required ionization rate over the redshift interval. I will then show using deep field Chandra observations that there are too few AGN to provide this ionization. I will finally compare the required ionization rates with various galaxy searches at these redshifts.