

Abstract

The numerous absorption lines seen in the spectra of distant quasars (QSOs), the so-called Lyman-alpha forest, reveal the inter-galactic medium (IGM) up to redshifts larger than 6. The main goal in studying the Lyman-alpha forest in QSO spectra is to determine the underlying matter distribution in the IGM. One of the key parameters is the total amount of absorption by neutral Hydrogen. In this talk, after introducing QSO absorption systems, I will show the results of our observations in measuring this absorption.