

NASA's Ultraviolet Spectrographs: Science and Atomic Data Needs

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February 3, 2006

Abstract

I will summarize some of the exciting science capabilities of NASA's ultraviolet spectrographs, including the Far Ultraviolet Spectroscopic Explorer mission and Hubble's Space Telescope Imaging Spectrograph and planned Cosmic Origins Spectrograph. These instruments have provided a vast archive of data for a broad range of studies, from the interstellar medium of the Milky Way and other nearby galaxies to the study of the intergalactic medium, from the atmospheres of stars to stellar remnants and black hole accretion disks. This talk will focus on the capabilities of these instruments and some of the important atomic data needs for the optimization of their scientific legacy.

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