FUV Astronomy with FIMS

Koo, Bon-Chul
Seoul National University

The primary purpose of FIMS is to study the diffuse, hot ($\sim 10^5$ K) gas in the Galaxy with FUV spectroscopy. This component of the ISM is known to pervade the Galactic disk and halo from FUV absorption line studies by Copernicus, IUE, and HST. Several models have been proposed to explain the origin of the gas, which involve conductive heating, radiative cooling, and turbulent mixing layers. Here we summarize the status of the FUV studies of the hot interstellar gas, and discuss the anticipated new results by FIMS.