

[**☞IM-13**] FUV Observations of The Taurus–Auriga–Perseus complex

Tae-Ho Lim<sup>1</sup>, Kyung-Wook Min<sup>1</sup>, Jae-Woo Park<sup>1</sup>, Il-Joong Kim<sup>1</sup>, Sung-Joon Park<sup>1</sup>, Yeo-Myung Lim<sup>1</sup>, Dae-Hee Lee<sup>2</sup>, Kwang-Il Seon<sup>2</sup>

<sup>1</sup>*Korea Advanced Institute of Science and Technology*

<sup>2</sup>*Korea Astronomy and Space Science Institute*

We present the FUV continuum map of The Taurus–Auriga–Perseus complex, which is one of the largest local association of dark clouds. The map is well consistent with the dust extinction and the CO emission map of the T–P–A region. The region is divided into 3 sub-regions by diffuse FUV intensities and the spectra of each region imply that the radiation field due to the Per OB2–association can be a main source of the H2 fluorescent emission of the nearby cloud region.

We used the PDR H2 model, named CLOUD, developed by van Dishoeck & Black for the sake of comparing our results to the H2 model.

[**☞IM-14**] Analysis of the North Galactic Pole region with FIMS

최연주<sup>1</sup>, 민경욱<sup>1</sup>, 선광일<sup>2</sup>

<sup>1</sup>*한국과학기술원 물리학과*, <sup>2</sup>*한국 천문연구원*

Cooling hot gas sets a floor on the ionization level for diffuse gas in the ISM in general and the galactic halo. Many high galactic latitude sight lines, cooling hot gas is the dominant source of the ionization. Such sites are prime regions for the formation of both C IV and Si IV ions at a temperature of  $T \sim 10^5$  K. To study of the ISM that have the  $10^4.5 \sim 6$  K ionization state by ionization or photoionization by the collision, searching for the radiation energy that is emitted at far ultra violet range is required. In this paper, we report the analysis of NGP( North Galactic Pole,  $l: 270^\circ, b: 90^\circ, \text{rad}: 40^\circ$ ) region by fuv(1350 ~ 1750Å) data that are surveyed with FIMS. After making the FIMS FUV image of the NGP region, we divided up into 50 small regions for that and got the spectrum emission lines from each one.