

relation $B \propto n^x$; $0.39 \leq x \leq 0.54$. It is concluded that magnetic field in interstellar clouds increases much less steeply than classically assumed complete frozen-in flux.

Radiative Transfer of Radio Recombination Line and Continuum in HII Regions

D. W. Kim and S. S. Hong

Seoul National University

In order to know the non-LTE effect on the analysis of radio recombination line observations, we have tried to find whether or not line and continuum are originated from same position in a given HII region.

Solving radiative transfer equation of Hydrogen α -transition line and continuum with slab-model, it is shown that maser like enhancement, i.e., negative absorption, can not be neglected in the case of E.M. $\geq 10^6$ pc/cm⁶. Even in homogeneous, isothermal nebula, LTE line to continuum ratio does not agree with non-LTE results.

GOTO 60cm 망원경 성능 점검

이 용 삼

연세 대학교 천문대

GOTO 60cm 반사 망원경을 설치하는 과정에 있어서의 문제점과 망원경의 성능을 점검한 결과를 제시하려고 하며, 동시에 관측자의 입장에서 보는 이 GOTO 망원경의 작동상의 여러 문제들을 논의하고자 한다.

Identification of Old Pole Stars

Um, In Kyung

Seoul National University

The positions of Je(帝) and Book Keuk(北極) often cited as pole stars in old Korean and Chinese star charts and catalogues have been examined by calculating the trajectories of these stars and the pole in the past. According to our calculations, 1) these pole stars are not the present Polaris, Kujin-II Sung, and 2) the times at which Je and Book Keuk were closest to the pole are found to be B.C. 1507 (Thang Dynasty) and A.D. 811 (Silla Dynasty), respectively.

Dynamical Masses of Six Globular Clusters

Y. R. Suh and M. S. Chun

Yonsei University

From the previously obtained two characteristic lengths, the core radius r_c and the tidal cutoff r_t ,