

## MAGNITUDE MEASUREMENTS OF CENTRAL STARS OF PLANETARY NEBULAE

R. Gathier<sup>1</sup> and S.R. Pottasch<sup>2</sup>

1. European Southern Observatory, München

2. Kapteyn Astronomical Institute, Groningen

**ABSTRACT.** Magnitudes have been measured for 44 faint central stars of planetary nebulae by imaging the star and nebula of a CCD detector. The nebula is suppressed by using a continuum filter. The remaining nebular continuum is then subtracted as background as long as the star can be clearly seen. This is true in 41 of the 44 cases observed. Zanstra temperatures are calculated from the observed magnitudes, and discussed.

## STROMGREN PHOTOMETRY OF THE CENTRAL STARS OF PLANETARY NEBULAE

R. Costero and J. Echevarría

Instituto de Astronomía

Universidad Nacional Autónoma de México

**ABSTRACT.** An attempt is made to deconvolve the contribution of the central star from that of nebular emission, in small and large Planetary Nebulae. The use of medium-band Strömgren photometry is possibly a more powerful tool than that of broad-band photometries to achieve meaningful stellar parameters, specially by means of a four-channel photometer. The various methods used to subtract the nebular contribution are analysed and the results of the first *ubv* and *H $\beta$*  observations are presented.