

## **Individual Distances for a Sample of Planetary Nebulae**

**A. Ali, S. Snaid and H.M. Basurah**

*Astronomy Department, Faculty of Science,  
King Abdulaziz University, Jeddah, Saudi Arabia  
afmali@kau.edu.sa*

*Abstract.* This paper is addressed to the important problem in the field of planetary nebulae research, the distances determination. We have applied one of the most powerful individual methods “*Reddening-Distance method*” to determine the distances to eleven planetary nebulae. There are four objects in our sample belong to (or towards) the Galactic bulge. Most of our objects are not well known planetary nebulae with unknown distances. To our knowledge, we have derived the distances for the first time to six planetary nebulae. The distance for the other five objects are compared with the available statistical and individual data in the literature. The derived distances for this small sample will increase the limited number of individual distances known for planetary nebulae. The essential nebular parameters are determined for the sample.

*Keywords:* Planetary nebulae: individual distance – nebular parameters.