

Modelling of the Helix Nebula NGC 7293

S.N Borah

Dergaon Kamal Dowerah College, Assam, India, 785614, (snborah@sancharnet.in)

The helix Nebula, NGC 7293, is one of the best known Planetary Nebula. The central star of the Helix is a DAO white dwarf with effective temperature 1,20,000K and its mass is 0.93 times of Solar mass. Its morphology and composition have been studied widely with spectrophotometry, Chandra and XMM-Newton space missions. Here, efforts have been made to model the Helix with the Montecarlo Photoionization Code MOCASSIN of Barbara Ercolano (Ercolano et al., 2003, MNRAS, 340, 1136). The results are compared with the earlier results. The archived data from XMM Newton on NGC 7293 have been reanalysed with SAS 6.5.