

Astronomy & Astrophysics Division Seminar

Title : In situ 1.2m telescope mirror aluminizing facility at Mount Abu

Speaker : Mr. S. N. Mathur (PRL, Ahmedabad)

Date : 31.08.2017 (Thursday)

Time : 14:30 Hrs

Venue : Seminar Room # 113/114 (Thaltej Campus)

Abstract:

Mirrors used in astronomical telescopes are one of the primary components of their optical system. Aluminum coated mirrors used in telescopes are exposed to the local environment, and as a result, mirror surface degrades over the time. The degradation leads to decrease in reflectivity and increase in light scattering and infrared emissivity. In order to achieve better reflectivity, mirrors are routinely re-coated. The aluminization of mirrors is a delicate process as it involves the handling of big optical system. Therefore, it is always better to have an in-situ mirror coating plant. For our 1.2m telescope at Mt. Abu, we have an in situ mirror aluminizing facility. In this talk I shall describe the aluminization process and the facility.
