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Aluminizing the Primary Mirrors of Telescopes in ARIES

As a part of maintenance activities, primary mirrors of telescope 3.6m Devasthal Optical Telescope (DOT) at Devasthal and 1.04m Sampurnanand Telescope (ST) at Manora peak are being recoated every two or three years or depending upon the degradation of their reflectivity. The primary mirror of 3.6m DOT has been coated for four times since its installation in 2014 and the primary mirror of 1.04m ST has been coated for more than seven times since its installation in 1972. Detail procedure of recoating of primary mirrors which includes the unmounting of M1 from the cell, handling, removal of old coating, recoating and realignment with the cell will be briefed. Some brief description of coating plant facilities and how the coating is degrading for different primary mirrors over the years will also be presented. In-situ cleaning of the primary mirrors of ARIES telescopes will also be discussed.

Presentation type

Oral

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