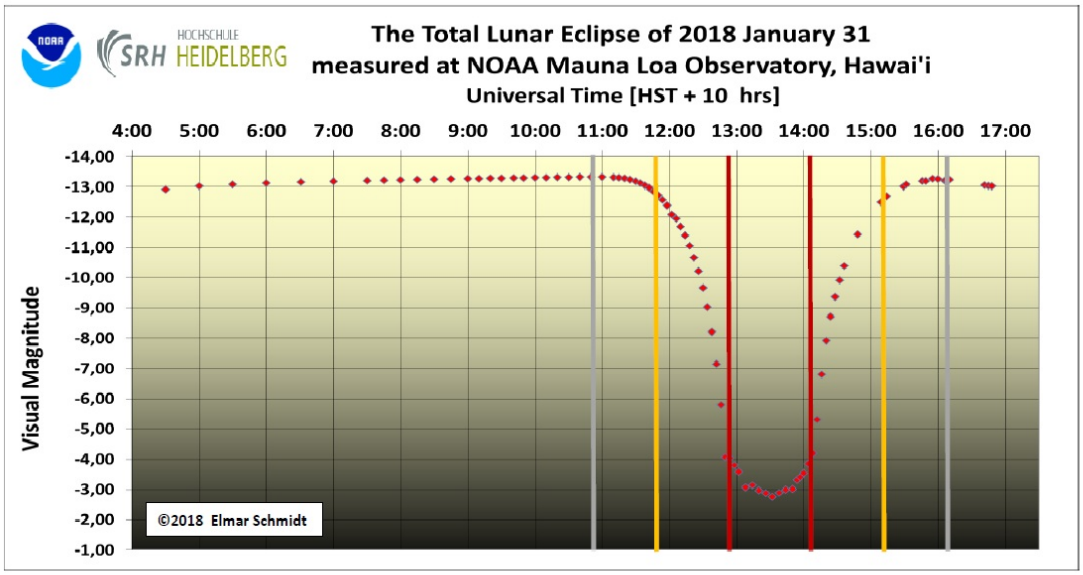
Instituto de Astronomía, sede Ensenada
UNAM, México

Seminario

Miércoles 23 de Enero, 2019, 11:30 hrs (PST), Auditorio IA-Ensenada

Absolute Photometry of the Moon In and Out of Lunar Eclipses

Dr. Elmar Schmidt
(SRH Univ. of Applied Sciences Heidelberg, Germany)



Dr. Schmidt has been following lunar eclipses since his student days, initially achieving estimates of the Moon's brightness by crude visual methods only. While being in industry R&D he became familiar with precision luminance measuring instruments, which happen to provide an accuracy of better than 0.1 mvis on the Moon and brighter planets. As these objects do not have good comparison objects in the sky, any photometry must be performed on an absolute scale, which is what finally was achieved after 2007 by Schmidt. For the Moon, this includes a very strong opposition effect especially near eclipses. The last ingredient in an ongoing project of 11 years has been Schmidt's willingness to travel to prime astronomical sites in Hawai'i, Namibia, Tenerife, and México for total lunar eclipses. Due to the hospitality of institutions like quite recently the OAN, Schmidt is now in command of a dataset for 9-10 out of 12 visited total lunar eclipses, the minimum light of which is sensibly governed by stratospheric aerosol. In this one-hour talk, therefore first correlations of the minimum light with eclipse geometry or solar-terrestrial relationships will be discussed.

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