

Development on Lunar laser ranging at Yunnan Observatories

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A primary objective of the Lunar Laser Ranging (LLR) experiment is to provide precise observations of the lunar orbit that contribute to a wide range of science investigations. Scientists in Yunnan Observatories have dedicated in lunar laser ranging experiments using 1.2m telescope for decades and the experiments turned out to be successful in Jan.2018. The presentation will talk about several key technologies of the lunar laser ranging system including optical path, computer control unit, detecting capability analysis, telescope tracking capability etc. Meanwhile some main equipments known as Laser, detector, event timer and rotating mirror will also be introduced along with relative parameters.