

MLRO PERFORMANCE CHARACTERIZATION

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Abstract

The Matera Laser Ranging Observatory (MLRO) has recently completed its warranty period and is now fully available for observational activities and further developments. This presentation describes the system performances after three years of operations, including substantial debugging and fine tuning efforts, giving an estimate of the system ranging precision and efficiency, calibration stability, estimated biases, accuracy of estimated position, etcetera. Examples are given of the system behaviour on different geodetic satellites as well as on moon targets, along with a thorough description of the calibration procedures, options and capabilities.