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Lidar system on Kiev SLR 1824

The main astronomical observatory of the National Academy of Sciences of Ukraine developed an additional module for the laser station, which will at the same time measuring the distance to the satellite to determine the state of the atmosphere along the line connecting the telescope and satellite. Features of the telescope optical system of the TPL-1, which is used at the station Golosiiv-Kyiv 1824 allows you to use the system to determine the state of the lower atmosphere during laser satellite observations. The report presents an optical telescope scheme, a block diagram of electronic components developed for lidar data and waveform return atmospheric scattering signals.