4.3 Requirements on SLR System for Participation in ELT and Future Laser Time Transfer Experiments

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We are summarizing the hardware requirements put on SLR system for its participation in the European Laser Timing (ELT) experiment. The procedure of calibration of related epoch timing delays will be described also. The determined calibration value is equal to time correction of acquired laser fire epoch versus a time, when the laser pulse is crossing the SLR system invariant point. Calibration campaigns related to the ELT project is under preparation by European Space Agency. It is expected that selected European and several overseas and non-European SLR stations will be characterized by this procedure. Obviously the calibration value acquired may be applied in a number of other experiments of laser time transfer, asynchronous laser transponder and one way ranging in a future.