**Infrastructure Upgrades**

The SLR telescope building has been renovated:
- Repaired external walls and rolling roof support pillars.
- New electrical lines and connectors.
- New air-conditioning and heating at the laser room and a door dust curtain.
- Replaced UPS.
- Red and IR light illumination at the telescope for security and telescope motion control.

**Hardware Upgrades**

- The SLR telescope mirrors were replaced.
- The SLR telescope was refocused and aligned.
- Hamamatsu H1901-20 PMT + Hamamatsu C5594 Amplifier for the stop channel.
- Hamamatsu APD module C6568 for the start channel.
- Optimized parameters for the start and stop channels, see poster 1987.
- A new calibration system and procedures, see poster 1839.
- TV cameras for monitoring the SLR operation:
  - All-Sky
  - Wide field
  - Narrow field
  - IR-Webcam and IR light diodes
- Calibration/tracking selecting switch, also for emergency laser beam blocking.

**Software Upgrades**

- Amplitude compensation procedure improvements.
- Post-processing software upgraded to STC2008.
- Automatic calibration data filtering and tracking data generation.
- Calibration drift is applied using 1-hour time window for pre-and post-pass calibrations.
- Changed the file naming conventions for better data management.
- All the generated data is archived automatically for further analysis.
- Fine tuning of the mount model for the open loop control.
- Increased measurement sets for the mount model generation.
- Several software applications for QC and to monitor system stability.

**Next Steps**

- New geodetic reference points for local ties
- Closed loop telescope control system.
- New data post processing software.
- Implementing the real time pass information transfer to Eurostat.
- Implementing pre-and post-pass meteorological data set.
- Station infrastructure modernization.

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