17th Workshop Summary, Sessions # 7, 8 Improving Ranging Accuracy, Calibration and Local Ties L.Grunwaldt, I.Prochazka

Accuracy and Calibration (2)

- the precision & accuracy of SLR stations is steadily improving
- High reprate photon counting SLR to "correct" target and correct calibrations are prerequisite for high accuracy SLR data
- No "magic touch" is existing for perfect calibration, the recommendations made earlier are still highly actual
- Alternative approach ("time deviation") to the LR precision has been applied to SLR data, the station limiting precision for various targets was demonstrated
- Technology (3)
- Development of Riga ET 3 ps RMS, improved linearity, stability and user friendly interface
- New technologies for 0.1 mm precision and stability laser ranging developed and demonstrated indoors (Start & Timing & SPAD)
- Standardization (1)
- ...of HW for existing SLR stations questionable, for upcomming systems may be helpful. SW procedures under consideration.
- Local ties (2+1)
- Wettzell shows excellent (~ mm) stability over >25 years
- sub-mm ties are difficult but expected in a near future.

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Key result in session

0.1.. 0.2 mm SLR data precision limit achieved at Graz

In other sessions

- Ajisai & Blits spin studies
- APOLLO LLR results
- LRO one way LR
- Compass & "1m network"
- " new coating" CCR

by Daniel Kucharski by Tom Murphy by Jan McGarry by Zhang Zhongping by V.Vasiliev.....