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Systematics at the SGF, Herstmonceux

KEYNOTE: Systematic errors are likely to be present to varying degrees in the laser range measurements from every SLR station in the ILRS network. Detecting such errors can be difficult and the possible sources are numerous. The GGOS goal for a reference frame of 1mm accuracy and 0.1mm/year stability is demanding and so stations must continue to work to seek out and eliminate all potential systematic errors. The SGF, Herstmonceux has made many efforts over the years to discover, minimise, eliminate and correct systematic errors to make its range measurements as accurate and consistent as can be. This presentation will discuss some of the past and ongoing work of the SGF, Herstmonceux to tackle potential systematics in its laser ranges. It will then consider what is required to further address systematics in the ILRS network, both from analysis feedback and international operational cooperation.