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Research on laser tracker measurement accuracy and data processing

A laser tracker accuracy test experiment is introduced in this paper. Using laser interferometer, we tested the laser tracker accuracy in the horizontal, longitudinal and vertical direction. And then statistics of laser tracker Precision in BEPCII storage ring from 2007-2010 is shown. According to the statistics, actual distance precision and angle precision are given to calculate mean square error of unit weight in adjustment. At last we will describe the distance network adjustment for laser tracker data processing.

Primary author: Ms LIANG, Jing (Division of Accelerator Technology, Dongguan Campus, Institute of High Energy Physics(IHEP), Chinese Academy of Sciences(CAS).)

Presenter: Ms LIANG, Jing (Division of Accelerator Technology, Dongguan Campus, Institute of High Energy Physics(IHEP), Chinese Academy of Sciences(CAS).)