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Instrument tests with the new Leica AT401

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In order to evaluate the performance of the Leica Absolute Tracker AT401 we performed a series of measurements in our underground calibration facility at sector 10 of the SLAC accelerator. The first was a check of the horizontal angle measurement accuracy and the level to gravity feature. The second was to compare the Laser Tracker distance measurements to our interferometer on a 30 m long horizontal bench with different instrument settings. A third test investigated the stability of the distance offset of the instrument. In addition we give a short summary how the instrument performed in the field for various tasks common in accelerator alignment.

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