Contribution ID: **52** Type: **Oral**

Operating the new AT500 Absolute Laser Tracker in magnetic field environment

Hexagon has recently presented a new generation of Leica Absolute Laser Trackers to the market.
During development Absolute Laser Trackers are exposed to a very comprehensive suite of environmental tests, following normed testing standards as well as special/ adapted tests exposing the systems to stress conditions customers expect it to operate in.

In this paper we will present the results of dedicated environmental tests for the all new AT500 and other recent products in magnetic field environment previously inspired by and discussed in the accelerator alignment community.
The system under test is exposed to magnetic fields up to 400 Gauss in an experimental setup for short intervals of time.
Results for the laser tracker measuring to various targets, including the new Leica B-Probeplus will be presented.

Recommendations to users will be given for operation of the various measurements systems in these special conditions.

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Session Classification: Session 6 - Instrumentation II

Track Classification: Instrumentation