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Leica Absolute Laser Tracker operation in magnetic field environment

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Leica Laser Trackers provided by Hexagon have a long-standing relationship with alignment groups of several particle accelerator facilities.

In recent years customers requested information about possibilities and limitations of operating laser trackers in special environments, exposing the instruments to magnetic fields.

At Hexagon we have followed up this new interest and investigated in a dedicated experiment the effect of magnetic fields of up to 400 Gauss on two types of our instruments, Leica Absolute Tracker AT403 and Leica Absolute Tracker AT960.

In this paper / poster we would like to present an overview of our findings and give some guidance to customers on the operation of our instruments exposed to this environment.

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