

Stretched-wire systems for the magnetic measurement of small-aperture magnets

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The alignment of magnets for particle accelerators has become nowadays highly demanding at metrological level. Furthermore, the reduced beam size in upcoming accelerator projects such as CLIC required for multipole magnets with small bores, where the access for traditional magnetic probes is limited. For these reasons, magnetic field measurement systems based on stretched wires have been developed at CERN in the last years. In this talk the latest results in terms of enhancement of the metrological performance, extension of the wire methods for a complete magnetic characterization and the wire system built for PACMAN will be presented.

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