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PCB Coil and stretched wire systems for high-precision quadrupole alignment

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Summary

In the measurement of magnetic fields of accelerator magnets, induction-type probes are among the predominant devices relied on for stable and accurate determination of field quality and alignment parameters. There are many advantages in using these systems, though fundamentally they are limited by the precision of conductor localization and the sizes of the signals generated. Here we give an overview of the Single Stretched Wire and Printed Circuit Board techniques: how these address the limitations of induction probes and are useful in obtaining high-precision results in demanding applications. We focus particularly on alignment of quadrupole magnets.

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