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Rotating coils, flux metric method, wire systems

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The measurement of the magnetic field is often the final verification of the design and fabrication process of a magnets for particle accelerators.

In most cases, when seeking high accuracy, the measurement technique and its realization can result in a considerable effort. The lecture describes

the most used field-measurement techniques based of flux-metric methods:

- i) the rotating coil method gives a complete two-dimensional description of the magnetic field in terms of normal and skew multipoles;
- ii) static coils are employed in case of fast-ramped or curved magnets;
- iii) the single stretched wire is the reference instrument to measure field integrals and to find the magnetic axis.

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