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A method based rotating coil to find magnetic center for series quadrupole magnets at IMP

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For the quadrupole magnets of the Facility for Rare Isotope Beams (FRIB) at Michigan State University (MSU), the location of the magnetic center has to be known. The FRIB included 115 quadrupole magnets in seven kinds of specifications, to minimize the measurement time and cut the measurement costs, the IMP Magnetic and Machinery Department proposed a method using a rotating coil to measure the magnetic center of the quadrupole magnets with different diameter. The measurement procedure is described and the reproducibility is achieved. In addition, the measurement results of the quadrupole magnets with different diameter are illustrated.

Submitters Country

China

Author: YANG, Jing (Institute of Modern Physics Chinese Acdemy of Sciences)

Co-authors: Dr YANG, Wenjie (colleague); Mr YAO, Qinggao (colleague); Dr CAI, Guozhu (colleague)

Presenter: Dr YANG, Wenjie (colleague)

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