



Contribution ID: 830 Contribution code: THPS59

Type: **Poster Presentation**

Design and instrumentation for permanent magnet samples exposed to a radiation environment

Thursday, 23 May 2024 16:00 (2 hours)

This work is part of a larger program to study the effects of radiation on permanent magnets in an accelerator environment. In order to be sure that the permanent magnet samples are accurately placed, measured, and catalogued we have developed a system of sample racks, holders and measuring apparatuses. We have combined these holders and measurement racks with electronics to allow a single computer to catalogue the position and intensity of the magnet measurements. We outline the design of the apparatus, the collection software, and the methodology we will use to collect the data.

Footnotes

Funding Agency

This material is based upon work supported by the U.S. Department of Energy, Office of Science, Office of Nuclear Physics under contract DE-AC05-06OR23177.

Paper preparation format

Word

Region represented

North America

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Session Classification: Thursday Poster Session

Track Classification: MC7: Accelerator Technology and Sustainability: MC7.T34 Permanent Magnets