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PMQ radiation resistance testing at NSLS-II

Wednesday 13 August 2025 10:10 (20 minutes)

A new lattice for the NSLS-II upgrade is likely to use high strength (> 100 T/m) permanent magnet quadrupoles (PMQs). An ID beam exiting through these quadrupoles will place highly intense x-rays very close (~ 1 mm) to the permanent-magnet material. In these tests the PMQs will be placed in the IFE (Instrumentation Front End) front end to assess any degradation of their field strengths and field quality due to long term exposure to an ID beam. The IFE beamline was recently commissioned at NSLS-II and is dedicated to testing the mechanical properties of accelerator materials and components. The description of the source and experimental setup will be given.

Please consider my poster for contributed oral presentation

No

Would you like to submit this poster in student poster session on Sunday (August 10th)

No

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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