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The Irradiation Facility at the Bern Cyclotron

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The Bern cyclotron is an 18 MeV proton accelerator that is used to irradiate samples with a total ionising dose-rate ranging from 10 to 20^3 rad/s (10^8 to 10^{11} 1MeV $n_{\text{eq}}/(\text{cm}^2 \text{ s})$). Using a setup including beam monitoring, current measurements and a flexible infrastructure to mount samples, the setup allows testing for radiation hardness of samples (electronics, silicon sensors, cables) employed in the high-radiation environments such as the HL-LHC. In this poster, I present the setup and demonstrate its flexibility with examples of how the Bern cyclotron can be used for irradiation studies.

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