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【207】The Bern medical cyclotron as a facility for radiation hardness studies

Monday, June 27, 2022 6:00 PM (15 minutes)

An 18-MeV-proton beamline is available for research activities at the Bern University Hospital's medical cyclotron. This talk will focus on its application as an irradiation facility for radiation hardness tests, targeting instrumentation for particle physics experiments and space missions. An overview of the facility's capabilities, including its on-site characterization laboratory, as well as ongoing R&D projects in beam instrumentation, will be given. Finally, an innovative project will be presented in which it is intended to produce a controlled neutron beam for radiation hardness tests, through conversion of the primary proton beam using targets of different materials.

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