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Induced radioactivity predictions from prompt beam loss readings

Protons impacting the electrostatic septum wires produce a significant activation of the septum and its surroundings. Such induced activation is the main limiting factor for the number of protons that can be delivered to the experiments and hence to the physics thruput of the CERN SPS. In this contribution, we present a data-driven model to predict the induced radioactivity around the electrostatic septum from prompt loss readings.

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