

NIEL study of high energy heavy ions in silicon

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Following the end of the 2017 and 2018 proton irradiation campaigns, high energy Xenon (2017) and Lead (2018) ions were delivered to the IRRAD facility at CERN. While the purpose of the heavy ion beams was mainly to test electronic components for Space in the CHARM facility downstream of IRRAD, dedicated experiments were also performed in which pad diodes were irradiated at different fluences in order to experimentally determine the hardness factor of the two new beams.

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