

Performance characterisation of ALPIDE after 2.7 Mrad proton irradiation at NPI

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The ALICE experiment at CERN will upgrade its Inner Tracking System (ITS) detector. The new ITS will consist of seven concentric cylindrical layers of ALPIDE silicon sensors which are based on the MAPS technology. As part of the upgrade program we have studied radiation hardness of the ALPIDE sensor using a 30 MeV proton beam provided by the cyclotron U-120M of the Nuclear Physics Institute of the Czech Academy of Sciences in Řež. In this talk we will explain the principle of these measurements and present the main results of these important tests.

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