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Radiation Hard Photodetectors Based on Fine-mesh Phototubes for Calorimetry in Very Forward Rapidity

The FEU-187 15-stage photomultiplier produced by RIE was tested at PNPI for its suitability for calorimetry in very forward regions at colliders. At levels expected in the LHC environment, it is radiation hard, resistant to magnetic fields, and unaffected by the presence of helium. It has an excellent time resolution of 58 ps, measured in time of flight measurements with 1.8 GeV/c beams of pions, kaons and protons at CERN and of 270 ps, measured with an ultrafast laser diode in single photoelectron mode.

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