

Test of amorphous silicon detectors on the Trento Proton Beam Line

Hydrogenated amorphous silicon (a-Si:H) is a well known material for its radiation resistance and for the possibility of deposition on flexible substrates like Polyimide (PI). The HASPIDE collaboration is developing a-Si:H devices both for dosimetry of clinical beams than flux measurement of other beam types. In this framework a test has been carried out at the Trento Proton Beam Line to test the capabilities of the prototypes in measuring the proton fluxes. Some results on device sensitivity, linearity of the response and measurement uncertainty will be presented.

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