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The Tandem accelerator at LNS and diagnostic aspects of the radioactive beams

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The Tandem Van De Graaff accelerator (15MV) operating at LNS in Catania since early '80s, has been used in last years for accelerating ion beams, produced by means of the EXCYT facility at LNS. In order to guarantee an optimized beam injection of very low intensity radioactive beams ($I_{\text{beam}} > 10^4$ pps), an efficient beam diagnostics has been developed in last years, mainly based on high sensitivity scintillating screens. We report on sensitivity and radiation hardness of several kinds of scintillators, including also a device based on microchannel plates.

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