

PROFILE MEASUREMENT OF SCANNING PROTON BEAM FOR LISOR USING CARBON FIBRE HARPS

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Abstract

Harps using secondary electron emission from 16 carbon monofilament wires have been built to measure the momentary horizontal and vertical beam profiles of a scanning 71 MeV 50 μ A proton beam. The wire spacing is 1 mm respectively 1.25 mm. A very large dynamic range and good time resolution are achieved by a newly developed 16 channel CAMAC read-out module using logarithmic amplifiers. A first test at low beam current is reported.