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Fast Scintillator Strip Position Detector with R7400 Photomultipliers Readout used in ZEUS Experiment at HERA II Collider

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A position sensitive scintillator strip detector used for the Luminosity Monitor of the ZEUS experiment is described. The detector readout based on the R7400 photomultipliers is presented. It offers satisfactory spatial resolution of 3 mm and a good signal to noise ratio that allows to run at the rate up to 10 MHz. The data obtained with the position detector are used for luminosity measurement and also for the monitoring and on-line correction of the HERA II beams.

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