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"A MULTIWIRE PROPORTIONAL CHAMBER BASED SYSTEM FOR
DIGITIZING ELECTROPHORETIC GELS"

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A system for studying proteins which utilizes a multiwire proportional chamber is described. Essential elements of this system are a strong magnetic field and a high speed bit-slice preprocessor based data acquisition system.

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Position Sensitive Silicon Detectors inside the Tevatron Collider

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Four position sensitive silicon detectors have been tested inside the tevatron beam pipe at Fermilab. Minimum ionizing particles coming from the beam halo during p-pbar storage conditions have been used in order to understand the performance of the detectors. Efficiency and linearity of response are shown together with measurement of the spatial resolution.

Different measurements have been performed at several distances from the beam. An operational distance of only 10 mm (10 sigmas) from the beam is achievable without affecting the performance of detectors and machine. The behaviour of the detectors with the radiation dose has also been investigated.