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A T0/Trigger Detector for the External Target Experiment at CSR

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Content

A new T0/Trigger detector based on multi-gap resistive plate chamber (MRPC) technology has been constructed and tested for the external target experiment (ETE) at CSR. It measures the multiplicity and timing information of particles produced in heavy-ion collisions at the target region, providing necessary event collision time (T0) and collision centrality with high precision. Monte-Carlo simulation shows a time resolution of several tens of picosecond can be achieved at central collisions. The experimental tests have been performed for this detector at both IHEP-E3 beam line and the CSR-ETE. The preliminary results will be shown to clarify the performance of the T0/Trigger detector.

Summary

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