

Study on the Performance of Large Area MRPC with High Position Resolution

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Multi-gap Resistive Plate Chamber(MRPC), which is first developed in high energy physics experiments with excellent time discrimination, is also highlighted in imaging applications. In our lab a set of 50cm×50cm MRPCs were successfully developed and several experiments have been done to test the performance. Cosmic ray muons were used and proper high voltage and operating gas were chosen. Data analysis indicates good detection efficiency and good position resolution, which encourages further study of its application in RPC-PET and muon tomography.

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