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Mass production and quality control of CEE iTOF-MRPC

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Multi-gap resistive plate chamber (MRPC) has been adopted to construct the inner Time-of-Flight (TOF) detector for the CEE experiment at HLEF. Its mass production started in May 2024. The production procedure and related quality control (QC) are described. A preliminary status of the MRPC production and the test results with cosmic rays is given. The inner TOF covers a total area of approximately $3.4 m^2$ and uses 24 high time resolution MRPC modules. With strict QC throughout the production process, the cosmic ray test results indicate that the time resolution is better than 40 ps and the efficiency exceeds 95%.

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