

Development of GEM based BPM for Muon g-2/EDM experiment

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The experimental value of muon g-2 factor is different with theoretical value that calculated from standard model. Therefore, measuring the g-2 factor has been considered as the key for beyond standard model. Muon g-2/EDM E34 experiment in J-PARC is one of the experimental effort to measure the magnetic moment of muon more precisely. Since the muon beam is used for this experiment, it is important to profile the properties of the beam. MCP BPM and CsI BPM is used for this work now, but using Gas electron multiplier(GEM) based BPM can be more economical way than using these BPMs. The development is ongoing, and the final goal of this work is to provide cost-effective method for profile the muon beam.

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