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Development and performance evaluation of Mini TPC for tracking heavy-ion high-intensity beam in CAT-M

For high-precision measurement of giant monopole resonance, it is necessary to measure the momentum of beam particle and recoil particles in the vicinity of reaction point with high precision. we have developed a new compact time projection chamber (Mini TPC) that can be irradiated with high-intensity heavy-ion beams, and performed heavy-ion beam irradiation experiments at HIMAC. In present study, We will report the results of simulation and performance for high-intensity heavy-ion beams.

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