



Contribution ID: 652

Type: **Contributed Poster Presentation**

Performance investigation of prototype beam drift chamber for LAMPS at RAON

The Beam Drift Chamber (BDC) is an important instrument for accurately reconstructing beam trajectories as they approach the experimental target of LAMPS (Large Acceptance Multi-Purpose Spectrometer) at RAON (Rare isotope Accelerator complex for ON-line experiments), in Daejeon, Korea. To assess its performance, focusing on trajectory reconstruction efficiency and position resolution, a prototype BDC (pBDC) was developed and tested with high-energy ion beams at the HIMAC (Heavy Ion Medical Accelerator in Chiba) in Japan. The evaluation used two types of ion beams: 100 MeV protons and 200 MeV/u carbon ions. This poster provides an overview of the design and construction process of the pBDC and presents a detailed discussion of its performance.

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Session Classification: Poster Session

Track Classification: New Facilities and Instrumentation