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The First Isochronous Mass Measurements at CSRe

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2 Graduate School of Chinese Academy of Sciences, Beijing 100049, China) 收稿日期 修回日期 网络版发布日期 接受日期

摘要 With the commissioning of the Cooler Storage Ring at the Heavy Ion Research Facility in Lanzhou (HIRFL CSR), a pilot experiment operating the CSRe in isochronous mode to test the power of HIRFL CSR for measuring the mass of the short lived nucleus was performed in December of 2007. The fragments with A/q=2 of 36Ar were injected into CSRe and their revolution frequencies were measured with a fast time pick—up detector with a thin foil in the circulating path of the ions. The preliminary result is presented. The result shows the potential of CSRe for mass measurements of short—lived nuclei.

关键词 <u>radiotive ion beam</u> <u>mass</u> <u>time of flight</u> <u>HIRFL CSR</u> 分类号

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