

Data analysis of isochronous mass measurement with two time-of-flight detectors at CSRe

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An upgraded Isochronous Mass Spectrometry (IMS) with two new Time-of-Flight (ToF) detectors has been established in the experimental cooler storage ring (CSRe) in Institute of Modern Physics in Lanzhou. The double-ToF IMS can measure the velocity of an ion stored in CSRe. Some preliminary results of the projectile fragments of $^{58}\text{Ni}^{19+}$ experiment conducted at the double-ToF IMS are presented in this poster. It is showed that the mass resolving power can be improved by correcting the momentum spread of stored ions with the velocity information.

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