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First results from the ISOLDE Solenoidal Spectrometer

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The $^{28}\text{Mg}(d,p)^{29}\text{Mg}$ reaction has been carried out using a 9.47 MeV/u radioactive ion beam from HIE-ISOLDE. This is the first physics measurement using the newly commissioned ISOLDE Solenoidal Spectrometer (ISS), which was used to detect the outgoing ions from the reaction. ISS is a spectrometer optimized for the study of direct reactions in inverse kinematics and is conceptually similar to the HELIOS spectrometer [1] at Argonne National Laboratory. An overview of the ISS project will be given through installation and stable-beam commissioning before discussing the outcome of the physics measurements made using radioactive beam this year. The upgrades to ISS that are planned during LS2 will also be detailed.

[1] J.C.Lighthall *et al.*, Nuclear Instruments and Methods in Physics Research A622 (2010) 97.

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