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HIE-ISOLDE physics campaign 2018

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The experiments at HIE-ISOLDE [1] made use of all three beam lines in 2018. Higher than before maximum energies of the post-accelerated radioactive ion beams were achieved with the installation of the fourth cryomodule of the linac now pushing towards the design value of 10 MeV/u. Majority of the experiments utilised the first beam line with the MINIBALL HPGe-detector array [2] for Coulomb-excitation and transfer-reaction studies along with a few experiments conducted at the third beam line using a variety of different setups. The ISOLDE Solenoidal Spectrometer (ISS) [3] based on the HELIOS spectrometer concept [4] was successfully commissioned and performed the first two experiments using few-nucleon transfer reactions. An overview of the MINIBALL and ISS experiments that were conducted in the HIE-ISOLDE physics campaign of 2018 will be presented in this talk.

References

- [1] M. Lindroos, P. A. Butler, M. Huyse, and K. Riisager, NIM B 266, 4687 (2008)
- [2] N. Warr et al., EPJ A 49, 40 (2013)
- [3] S. J. Freeman et al., CERN-INTC-031, 099 (2010)
- [4] J. C. Lighthall et al., NIM A 622, 97 (2010)

Primary author: KONKI, Joonas (CERN)

Presenter: KONKI, Joonas (CERN)

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