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Nuclear structure studies via precision mass measurements

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The Ion Guide Isotope Separator On-Line (IGISOL) facility in the JYFL Accelerator Laboratory offers versatile possibilities for nuclear structure studies via high-precision mass measurements as well as via decay and laser spectroscopy. In this presentation, I will focus on mass measurements recently performed with the JYFLTRAP Penning trap mass spectrometer. These include for example measurements on the neutron-rich rare-earth isotopes close to $N=100$ as well as nuclides close to 78Ni . In addition to the ground states, information on long-living isomeric states has been obtained. Many of the studied nuclides were measured for the first time and therefore provide essential data for nuclear structure far from stability as well as for nuclear astrophysics.

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