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The study of nuclear structure in collaboration with ISOLDE

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The ISOLDE facility at CERN is one of the world's leading centers for the investigation of exotic nuclei and their structure. Thanks to large production yields and element-selective laser ionisation, ISOLDE provides access to a broad range of radioactive isotopes far from stability. Various experimental techniques, for example, laser or decay spectroscopy, are used to probe properties of these nuclei, including their shapes, the presence of isomeric states, or rare decay modes, such as the process of β -delayed fission. In this contribution, we present recent results obtained through a collaboration between a local research group specializing in nuclear structure studies and the ISOLDE facility.

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