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In-beam gamma ray and conversion electron spectroscopy at JYFL

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The Accelerator Laboratory at the University of Jyväskylä has a long history in studies of nuclear structure through in-beam gamma ray and internal conversion electron spectroscopy.

After starting with devices operated “stand-alone” the modest DORIS array was coupled to the gas-filled recoil separator RITU for studies using the Recoil-Decay Tagging technique in the early 1990s.

Since those times, developments at JYFL have slowly progressed using the JUROSPHERE, JUROGAM and JUROGAMII arrays of germanium detectors. In parallel, internal conversion electron studies were carried out with the SACRED electron spectrometer, which was also coupled to RITU. Finally, the two techniques were combined to form the SAGE spectrometer for combined gamma ray and conversion electron studies. In future, experimental campaigns using the recently commissioned MARA mass spectrometer are envisaged.

An overview of highlights from recent studies and an outlook to future perspectives at JYFL will be presented.

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