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HIGH INTENSITY ION GUIDES AND PURIFICATION TECHNIQUES FOR LOW ENERGY RADIOACTIVE ION BEAMS

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Many projects worldwide aim to increase by orders of magnitude the number of exotic nuclei, in particular produced using the ISOL technique. At the same time, more and more experimental setups require very pure secondary beams in order to perform precision experiments in the domain of the fundamental interactions but also for nuclear structure studies.

In order to achieve such requirements with high intensities radioactive ion beams, it is necessary to develop new high intensity ion guides and powerful purification devices. In this presentation, we will first give a brief overview of the different purification methods that can be applied using high resolution mass spectrometers (HRS), multi-reflection time-of-flight mass separators (MR-TOF-MS)

or dedicated Penning traps. In a second part, we will focus on the ongoing developments in the framework of the SPIRAL2 project at GANIL.

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