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Towards high-resolution in-beam gamma-ray spectroscopy at the RIBF

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The Radioactive Isotope Beam Factory (RIBF) at RIKEN provides the world's highest intensity beams for the production of radioactive isotopes by in-flight fragmentation and fission. Stable beams at 345 MeV/u are impinging on primary targets and secondary beams are separated and identified in the BigRIPS fragment separator. In-beam gamma-ray spectroscopy towards the drip-lines utilizes the DALI2 array for maximum efficiency. To overcome the limited resolution, we currently constructing a germanium-based gamma-ray spectrometer composed of the MINIBALL clusters and several Ge tracking detectors from Japan, Europe, and the USA for experimental fast beam campaigns. The status of the project and the physics program will be presented.

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