

Overview of the HiCARI project at the RIBF

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In-beam gamma-ray spectroscopy at the Radioactive Isotope Beam Factory (RIBF), RIKEN, Japan has primarily been carried out in the moderate energy resolution regime using the high-efficiency NaI array DALI2. To perform high-resolution gamma-ray spectroscopy, a high-purity germanium array, known as the High-resolution Cluster Array at the RIBF (HiCARI), was realised at the RIBF. The array comprised six Miniball detectors, two GRETA-type tracking detectors, and four clover detectors sourced from around the world.

Three experimental campaigns, exploring many key regions of the nuclear chart, were carried out during 2020 and 2021, yielding excellent preliminary results across a range of physics topics. This talk will provide details of the HiCARI configuration, the physics cases addressed, and some preliminary results from the campaigns.

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