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GT-5 status and future directions

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In-beam gamma-ray spectroscopy is a powerful experimental tool for elucidating the structure of unstable nuclei and has served as a major workhorse at radioactive beam facilities. The high resolution, enabled by the use of tracking Ge detectors, will further enhance spectroscopic capabilities and broaden the scope of experimental explorations. This was exemplified by the HiCARI campaign, which combined available Ge detectors, including those possessing the gamma-ray tracking capability, and high-quality radioactive beams at RIBF. Following the success of this experimental campaign in 2020, a new GRETINA-type tracking detector module has been delivered to RIBF and the first experiments are planned to begin in the near future. The project is named GT-5 and it is funded as part of the RIKEN Transformative Research Innovation Platform (TRIP). The current status of the tracking detectors, results of simulation studies, and future directions will be discussed.

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