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## P2.19: Angular correlation measurement and magnetic field response of $^{169}\text{Yb}$ for double photon coincidence imaging

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Nuclear medicine imaging is an important non-invasive technique in medical care for obtaining information inside the body by detecting radiation emitted from within the body to the outside and visualizing its distribution. In this study, we developed a new nuclear medicine imaging technique that combines magnetic field and RI imaging by utilizing the characteristic that the emission angle of gamma rays changes due to the influence of external fields such as magnetic and electric fields in the intermediate state of cascade nuclear decay and measuring angle correlation. We also conducted exploration and quantification of medical RI tracers that are more susceptible to perturbations by external fields.

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