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Using HGe and LaBr detectors in gamma-gamma-coincidence applications. EVA KASANDA, Univ of Guelph, DENNIS MUECHER, Univ of Guelph, TRIUMF, VINZENZ BILDSTEIN, JOSEPH TURKO, DEYVID MITKOV, Univ of Guelph — In the past decade, nuclear detectors have been subject to increasing demands for accuracy and efficiency. High Purity Germanium (HPGe) detector arrays are an excellent example of a high precision detector born of this demand, as they boast an energy resolution of below 0.1This technique could provide a significant improvement to experiments using fast external triggers, and environments with strongly competing channels. We will demonstrate the application of this method for the range verification in ion beam radiation therapy, and in the identification of superheavy elements.

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