3000

2500



Development of a Multi-Detector System for Identification of Low-Activity CTBT-Relevant Radionuclides

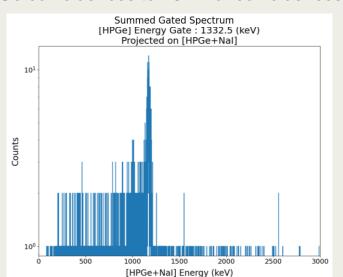
LIGHTNING TALK

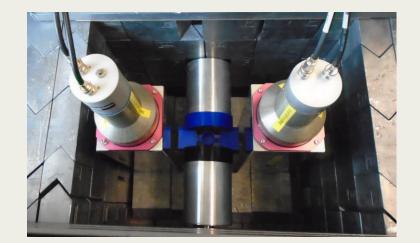
P3.2-809

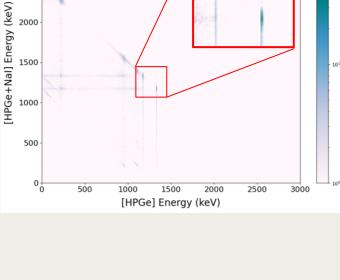


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- Development of a multi-detector coincidence system at the UK's certified CTBT radionuclide laboratory GBL15
- Nal detectors incorporated into a γ-γ coincidence system to increase the number of coincident counts captured
- For a 3.0 kBq ⁶⁰Co source measurement, peak-to-total ratios improved from ~0.2 for HPGe-HPGe coincidences to >0.4 for coincidences utilising a combination of HPGe and NaI counts







[HPGe] [HPGe+NaI] Coincidence Matrix



³ National Physical Laboratory, Teddington, UK, TW11 0LW