

Design and construction of a small PET/SPECT scanner with GAGG/CsI phoswich assemblies

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New GAGG/CsI phoswich assemblies are being developed at the Galician Institute for High Energy Physics, aiming to provide improvements in sensitivity, and spatial resolution for PET and SPECT medical imaging devices. The phoswich technique is used in PET developments to improve spatial resolution by obtaining the depth of interaction (DOI) measurement. In this work, a scanner made of two sets of GAGG/CsI scintillator phoswich units, and with ADP-based read-out, is proposed. The first proof-of-concept and the already done simulations show that the conceptual design described here is a suitable candidate for a PET and SPECT imaging scanner.

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