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Study of the performance of CdZnTe detectors

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Compared with other type of detectors, CdZnTe(CZT) detectors have their own advantages. CZT has high atomic number of the materials ($Z_{\text{Cd}}=48, Z_{\text{Te}}=52$) with a high band-gap energy(1.5eV). CZT has a higher detection efficiency for γ compared with scintillator detectors. CZT can be operated at room temperature with no need of cooling compared with high-purity germanium detector. This article introduced the performance of the CZT of different types.

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