

Electronic Noise in High Purity Germanium Radiation Detectors

A unique class of physics experiments requires the detection of low energy depositions in large volume radiation detectors. The high purity germanium (HPGe) detector remains the leader in energy resolution achievable from kg-scale detectors. This poster will present the fundamental sources of electronic noise which limit the low energy threshold in HPGe detectors. Improvements will be demonstrated which can enable the next generation of physics experiments.

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