

Sensitivity Improvement of BEGe High Purity Germanium Spectrometer Via Rise-Time Shaping Filter Analysis

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- Additions to BE-HPGe Detector:
 - Muon Veto (~10% background reduction)
 - Nitrogen Flushing (2-3% reduction)
- Rise-time optimization analysis
 - values tested from $1\mu\text{s}$ up to $22\mu\text{s}$
- Flattop optimization
 - $0.1\mu\text{s}$ to $3\mu\text{s}$
- Gain comparison for dependence
 - x6.7 gain vs x26.9 gain
- Peak anomaly that varies with rise-time variation

Poster 042

