SIMULATION OF BACKGROUND REDUCTION TECHNIQUES FOR GERMANIUM DBD DETECTORS.

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In order to reach the background level required in new generation neutrinoless double beta decay experiments using enriched germanium detectors we studied, by simulation, some techniques for background reduction.

With this aim, a simulation package was developed, and studies concerning granularity, segmentation and spatial resolution and pulse shape analysis were made showing, after the analysis of the obtained data, that a reduction of the background by a factor 20 could be reached.