

Stephane Lalkovski, Ani Minkova, Stoyanka Ilieva. EUROBALL MULTIDETECTOR GAMMA-RAY ARRAY

This article is dedicated to the largest, at the present, gamma-ray multidetector array EUROBALL IV, which consists of 239 high-pure anti-Compton shielded Ge detectors. 105 of them are grouped by 7, forming the so called "cluster" composite detector. Here we represent an experimental study of cluster's response functions. The aim is to determine the optimal conditions for detecting of the full gamma-ray energy.

Keywords: gamma spectroscopy; multidetectors; cluster and clover detectors

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Stephane Lalkovski
St Kliment Ohridski University of Sofia
Faculty of Physics
Department of Atomic Physics
5 J. Bourchier Blvd.
1164 Sofia , BULGARIA

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