Characterisation of an ultra low-background point contact HPGe well-detector for an underground laboratory - DTU Orbit (30/01/2019)

Since a few years there are well-type HPGe-detectors with a small, point-like, anode contacts available commercially. This paper describes the characterisation of the first ultra low-background, so-called, SAGe™ well detector with regards to resolution and background performance. Inside a passive lead/copper shield in the underground laboratory HADES a background count rate of $690 \pm 6$ d$^{-1}$ (268 $\pm 3$ d$^{-1}$ per kg Ge) was recorded 19 months after taking it underground.

**General information**

**State:** Published  
**Organisations:** Center for Nuclear Technologies, The Hevesy Laboratory, Radioecology and Tracer Studies, European Commission Joint Research Centre Institute  
**Contributors:** Hult, M., Marissens, G., Stroh, H., Lutter, G., Tzika, F., Markovic, N.  
**Pages:** 446-449  
**Publication date:** 2018  
**Peer-reviewed:** Yes

**Publication information**

**Journal:** Applied Radiation and Isotopes  
**Volume:** 134  
**ISSN (Print):** 0969-8043

**Ratings:**  
BFI (2019): BFI-level 1  
Web of Science (2019): Indexed yes  
BFI (2018): BFI-level 1  
Web of Science (2018): Indexed yes  
BFI (2017): BFI-level 1  
Scopus rating (2017): CiteScore 1.15 SJR 0.528 SNIP 0.973  
Web of Science (2017): Impact factor 1.123  
Web of Science (2017): Indexed yes  
BFI (2016): BFI-level 1  
Scopus rating (2016): CiteScore 1.17 SJR 0.537 SNIP 1.027  
Web of Science (2016): Impact factor 1.128  
Web of Science (2016): Indexed yes  
BFI (2015): BFI-level 1  
Scopus rating (2015): CiteScore 1.15 SJR 0.547 SNIP 0.999  
Web of Science (2015): Impact factor 1.136  
BFI (2014): BFI-level 1  
Scopus rating (2014): CiteScore 1.27 SJR 0.574 SNIP 1.203  
Web of Science (2014): Impact factor 1.231  
Web of Science (2014): Indexed yes  
BFI (2013): BFI-level 1  
Scopus rating (2013): CiteScore 1.24 SJR 0.526 SNIP 0.953  
Web of Science (2013): Impact factor 1.056  
ISI indexed (2013): ISI indexed yes  
Web of Science (2013): Indexed yes  
BFI (2012): BFI-level 1  
Scopus rating (2012): CiteScore 1.29 SJR 0.671 SNIP 1.151  
Web of Science (2012): Impact factor 1.179  
ISI indexed (2012): ISI indexed yes  
Web of Science (2012): Indexed yes  
BFI (2011): BFI-level 1  
Scopus rating (2011): CiteScore 1.21 SJR 0.644 SNIP 1.137  
Web of Science (2011): Impact factor 1.172  
ISI indexed (2011): ISI indexed yes  
Web of Science (2011): Indexed yes  
BFI (2010): BFI-level 1