Contribution ID: 269 Type: Poster

Experimental studies of slow neutron detector based on thin-film CVD diamond

Wednesday, 12 October 2016 15:30 (30)

The paper presents the research results of slow neutrons detector based on thin film CVD-diamond with a deep graphitized layer. It is shown the low sensitivity of the detector to the g- and β - radiation. As a converter of slow neutrons used boron isotope 10B and lithium carbonate 6Li2CO3. In both cases, the efficiency of slow neutrons registration was about 3%

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Session Classification: Poster session - III

Track Classification: Methods of experimental physics