Contribution ID : 245

Measuring linear energy transfer of heavy charged particles by thin-film diamond detector

Wednesday, 12 October 2016 17:15 (15)

New detectors based on thin films of diamond for measuring linear energy transfer were developed. Detectors was tested by rradiation from next isotopes: 90Sr-Y90, 239Pu, 252Cf. It is shown that developed detectors effectively records a heavy charged particles, whereas beta, neutron and gamma radiation does not give a significant contribution to their signals.

Primary author(s) : Mr. GLADCHENKOV, Evgeny (Industrial - Technology Center "UralAlmazInvest", Ivano-Franko street, Moscow, 121108, Russia); Mr. TYURIN, Evgeny (National Research Nuclear University "MEPhI"); Mr. ZAHARCHENKO, Kirill (Industrial - Technology Center "UralAlmazInvest", Ivano-Franko street, Moscow, 121108, Russia); Mr. NEDOSEKIN, Pavel (Industrial - Technology Center "UralAlmazInvest", Ivano-Franko street, Moscow, 121108, Russia); Mr. IBRAGIMOV, Renat (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); Mr. KOLYUBIN, Vladimir (Industrial - Technology Center "UralAlmazInvest", Ivano-Franko street, Moscow, 121108, Russia)

Presenter(s): Mr. TYURIN, Evgeny (National Research Nuclear University "MEPhI")

Session Classification : Methods of experimental physics - parallel III

Track Classification : Methods of experimental physics