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

New detectors based on thin films of diamond for measurig linear energy transfer were developed. Detectors was tested by rradiation from next isotopes: $90 \mathrm{Sr}-\mathrm{Y} 90,239 \mathrm{Pu}, 252 \mathrm{Cf}$. 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.

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