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Simulation for neutron - boron-10 interaction in coating of gaseous tube counter anode wire and moving of secondary nuclei in media

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An simulation for two main reactions of fast neutron and boron-10 inteaction in anode wire coating of gas-discharge tube counter is performed.
Moving of secondary nuclei ^4He и ^7Li within coating is considered.
Residual energy of nuclei is calculated taking into account reaction kinematics.
It was found that a condition for a both nucleus exit from anode to counter gas must be claiming enough high energy above 3 MeV and small wire external radius below $20\mu m$.

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