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P2.29: Radiation Portal monitor performances at low energies

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Dedicated to the control of radiation on industrial, research and civil sites, the portal monitors produced by Bertin Technologies, automatically detects radioactive source carried by trucks, cars, and trains. An alarm classification can discriminate natural and artificial radiation.

The research and development division is working on the detection at low energy, where the performances of the detector needs to be improved. Energy-weighted algorithm is applied at low energy to reduce the false alarm and detect the ^{226}Ra radioelement. Preliminary experimental analysis and simulation on Geant4 are presented and discussed.

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