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Radon déposition simulation and test

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The radon deposition is a critical background for many underground experiment through it's daughter ^{210}Pb . Depending on the energy region the final background could be influenced by ^{210}Pb , ^{210}Bi or ^{210}Po . The energy emitted by the contaminated pieces is influence by the depth of implantation. In this work, I present a simulation of penetration depth. This depth is simulated by Geant 4 but is also dependant on surface state of the material. I am also planning to present implantation measurement with radonisation chamber and present a comparison with simulated depth of implantation.

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