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Surface contamination from plate-out and implantation of radon daughters

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Protection from and rejection of backgrounds are key issues for direct dark matter detection and neutrinoless double beta decay experiments.
The potential of next-generation rare event search experiments for achieving very low energy threshold can be challenged by radioactive background at energies below a few tens of keV. Surface contamination from plate-out and implantation of radon daughters can give rise to neutron and gamma-ray backgrounds in the region of interest. Ongoing R&D projects to characterize these backgrounds will be discussed.

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