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Rejection of surface background in thermal detectors

Thermal detectors have recently achieved a leading role in the fields of Neutrinoless Double Beta Decay and Dark Matter searches thanks to their excellent energy resolution and to the wide choice of absorber materials. In these fields the background coming from surface contaminations is frequently dominant.
We propose a scintillation-based approach for tagging this type of background and discuss the innovative application of this technique in non-scintillating bolometric detectors which will allow a more favorable signal to background ratio.
The first results of this promising technique are presented and discussed.

quote your primary experiment

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