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Ion-Channeling in Direct Dark Matter Crystalline Detectors

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The channeling of the recoiling nucleus in crystalline detectors after a WIMP collision would produce a larger scintillation or ionization signal in direct detection experiments than otherwise expected. I present estimates of the importance of this effect in NaI, Si and Ge crystals, using analytic models developed from the 1970's onwards to describe channeling and blocking and blocking effect.

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