

Physics reach of the BULLKID-DM experiment: background and sensitivity limits

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BULLKID-DM is a new detector concept for direct dark matter research, aimed at controlling backgrounds by creating a fully active array of detectors. It will be composed of more than 2,000 silicon dice, sensed by cryogenic phonon-mediated kinetic inductance detectors (KIDs). In this poster, I present the expected background and the projected sensitivity, to WIMP signals, for the final configuration of the detector at the Laboratori Nazionali del Gran Sasso (LNGS).

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