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# The SNOLAB Science Programme

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Several of the major questions studied in contemporary astro-particle and sub-atomic physics are performed through weak interaction studies or rare event searches. These require the ultra-quiet environment afforded by deep underground facilities, where the cosmic radiation induced backgrounds in the detection systems are reduced to a manageable level, and local ambient radioactivity reduced by shielding and low-background detector construction.

The science programme at SNOLAB, the Canadian deep underground facility, will be described, to provide an overview of the science strands than can be explored with such a facility. These include direct searches for the Galactic dark matter, the study of fundamental neutrino properties through the search for neutrino-less double-beta decay in candidate isotopes, and the study of non-terrestrial sources of neutrinos.

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