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Advanced Instrumentation Techniques developed for SNOLAB science programmes.

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SNOLAB is a deep underground research facility, based at a depth of 2km in the Vale Creighton mine, near Sudbury, Ontario. The SNOLAB research programme is primarily based around particle and astroparticle physics projects studying the Galactic dark matter, neutrinoless double beta decay and natural sources of neutrinos. Several leading edge technologies have been developed to study these particle interactions, with additional supporting technologies required to ensure the high performance, low energy threshold and low radiogenic background requirements of the experiments. This talk will provide an overview of the particle detection, supporting technologies, and instrumentation techniques developed for the SNOLAB research programme.

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