



Dr. Robert Frost (Lund University, Sweden)

The Applied Nuclear Physics Group at Lund University has constructed a prototype CANS (Compact Accelerator-driven Neutron Source). The CANS is based around a 3 MV, single-ended, Pelletron accelerator, which is used to impinge a 2.8 MeV deuterium beam into a beryllium target. The immediate application of the CANS will be to forward the activities of the group in the area of neutron-activation analysis, but the CANS will be used: in the develop novel state-of-the-art instruments and methods for the characterisation of spent nuclear fuel, with the purposes of nuclear safeguards; to test and categorise detectors for neutron scattering instrumentation; and for work on thermal-neutron tagging. (<https://portal.research.lu.se/en/persons/robert-frost>)