Summer Research Jobs

Laurentian University
Université Laurentienne

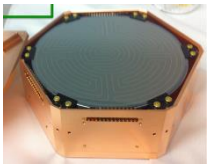
Particle Astrophysics

Summer research positions are open for undergraduate students in Physics, Computer Science, Chemistry or Engineering.
Projects are available on the CUTE and SuperCDMS, DEAP, EXO, HALO, NEWS_G, PICO, and SNO+ experiments.

Topics include: computer programming for modeling/simulation, statistical data analysis, hardware development and testing, low background radio-assays, material purification, calibration and particle detection techniques.

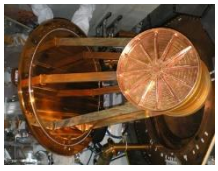
NSERC USRA's can be held for these jobs
Deadline: Feb 9th

For information contact:
tine@snolab.ca
Deadline: March 1st



CUTE and SuperCDMS dark matter searches with low temperature detectors.

DEAP-3600 is a second generation experiment that searches for dark matter particle interactions on liquid argon.

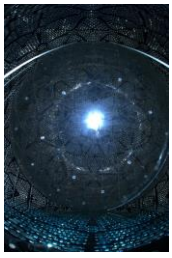


EXO is searching for neutrinoless double beta ($0\nu\beta\beta$) decay in ^{136}Xe. Extensive R&D for the next generation nEXO is underway.

HALO is able to detect neutrinos from galactic core-collapse super-novae, and will help solve many questions in particle and astrophysics.

NEWS-G searching for low mass dark matter with gaseous Spheres.

PICO is searching for dark matter using bubble chambers filled with C_3F_8 and is one of the world-leading experiments in direct dark matter search.



SNO+ is a multi-purpose neutrino detector, able to study neutrinos from the sun, the earth, reactors and supernovae, and search for $0\nu\beta\beta$ decay in ^{130}Te for the first phase.

Dr. Caden, Dr. Farine, Dr. Gorel, Dr. Jillings, Dr. Kraus, Dr. Licciardi, Dr. Scroza, Dr. Virtue, Dr. Wichoski