

ADVENTURES IN UNDERGROUND SPACE

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4:00 P.M. NSH 118
(Refreshments at 3:30 P.M. NSH 202)

For more than 50 years, physicists have used underground laboratories to probe the nature of the Universe. Large, sensitive detectors in underground locations can either use the Earth as a shield against interference by cosmic rays (for example, proton decay experiments) or as a filter to pass only certain particles (for example, dark matter experiments). More recently, some of these physics laboratories have been used to study other phenomena (for example, geomicrobiology and rock fracturing).

This talk will review the past and present of underground laboratories and speculate on its future. I will also comment on the latest underground science phenomenon--neutrinos traveling faster than the speed of light.

Colloquium

All interested
persons are
cordially
invited to
attend.