

Studies of variation of rates for nuclear decays

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Neu-Rad is an experiment to investigate the recently observed variations in isotope decay rates correlated with the earth-sun distance and solar flares. Isotope decay rates will be observed near high flux neutrino sources with energies similar to what is observed from the sun such as the nuclear reactor facility in Rio De Janerio, Brasil. Isotope decay rates will also be measured at the underground neutrino beamline at Fermilab. The isotope decay rates are recorded using a Ge detector and are integrated every 12 hours. The decay rates in the laboratory, at the Fermilab neutrino source, and at the nuclear reactor facility will be compared. Initial measurements using a Sr-90 source in the laboratory will be shown.

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