

SOLAR NEUTRINOS AND THE SUDBURY NEUTRINO OBSERVATORY

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We present initial physics results from observing low energy neutrinos in the Sudbury Neutrino Observatory (SNO). Based on energy, direction and location, the data in the region of interest are dominated by boron-8 solar neutrinos detected by the charged current reaction on deuterium and elastic scattering from electrons, with very little background. The level of radioactive backgrounds indicate that the measurement of all active neutrino types via the neutral current reaction on deuterium will be possible with small systematic uncertainties.