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Periodicity studies of solar neutrino signals at the Sudbury Neutrino Observatory AUBRA ANTHONY, SUDBURY NEUTRINO OBSERVATORY COLLABORATION — The Sudbury Neutrino Observatory collaboration has performed a search for sinusoidal periodicity in the ^{8}B solar neutrino flux, and has found no evidence of variations for periods between 1 day and 10 years. I describe here an effort to use the Rayleigh Power Test to probe periodicities in the SNO data in a higher frequency range than has been previously sampled (> 1 day^{-1}). This has the advantage of sensitivity to neutrino flux variations that might arise due to solar oscillatory activity, particularly gravitational mode oscillations ("g-mode" oscillations), which are confined to the interior of the sun.

Aubra Anthony

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