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Second-forbidden beta decay of ^{8}B MINESH BACRANIA, DEREK STORM, R.G. HAMISH ROBERTSON, Center for Experimental Nuclear Physics and Astrophysics, University of Washington — The second-forbidden beta decay of ^{8}B to the ground state of ^{8}Be would result in the production of solar neutrinos with energies higher those currently expected. The presence of these neutrinos would be a background to a precise measurement of the ^{8}B neutrino spectral shape, and to the detection of solar *hep* neutrinos. We will present an experimental limit on the branching ratio of this transition, and compare these results to a shell-model rate calculation.

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