

Abstract Submitted  
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**Recent results from Super-Kamiokande on searches for neutron oscillation, Baryon Number violation, and other related studies**<sup>1</sup> DYLAN NICHOLAS, KENNETH GANEZER, California State University Dominguez Hills, SUPER-KAMIOKANDE COLLABORATION — In this talk we will review the final results on a search for neutron oscillation in Super-Kamiokande-I, which were very recently submitted to the high energy physics archive as arXiv:1109.4227 [hep-ex] ( at <http://arxiv.org/abs/1109.4227>) and submitted by us on behalf of the Super-Kamiokande collaboration to Physical Review Letters. These studies set new lower limits on neutron oscillation which include the major sources of systematic errors and constrain R-L symmetric theories of Grand Unification, from studies which have involved undergraduate students and physicists from CSUDH for several years. We will also discuss other recent measurements from Super-Kamiokande involving searches for Baryon number violation, neutrino astrophysics, and studies of neutrino oscillations and the student involvement in this research. This research is funded at CSUDH by grant # NSF 0901048 (to CSUDH) from the NSF Particle-Astrophysics program.

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