

*Six Selected Recent Publications That Illustrate the Work of My Group*

**Janet M. Conrad**

- “Neutrino Interferometry for High-Precision Tests of Lorentz Symmetry with IceCube,” M. G. Aartsen *et al.* [IceCube Collaboration], arXiv:1709.03434 [hep-ex], Nature Physics, 16 July 2018.
- “Observation of a Significant Excess of Electron-Like Events in the MiniBooNE Short-Baseline Neutrino Experiment,” A. A. Aguilar-Arevalo *et al.* [MiniBooNE Collaboration], arXiv:1805.12028 [hep-ex], Submitted to Phys. Rev. Lett., 2018
- “First Constraints on the Complete Neutrino Mixing Matrix with a Sterile Neutrino,” G. H. Collin, C. A. Argelles, J. M. Conrad and M. H. Shaevitz, arXiv:1607.00011 [hep-ph], Phys.Rev.Lett. 117, no.22, 221801, 2016.
- “Searches for Sterile Neutrinos with the IceCube Detector,” M. G. Aartsen *et al.* [IceCube Collaboration], arXiv:1605.01990 [hep-ex], Phys. Rev. Lett. **117**, no. 7, 071801, 2016.
- “Convolutional Neural Networks Applied to Neutrino Events in a Liquid Argon Time Projection Chamber,” R. Acciarri, *et al.*, [MicroBooNE Collaboration] arXiv:1611.05531 [physics.ins-det] JINST **12**, P03011, 2017.
- “IsoDAR@KamLAND: A Conceptual Design Report for the Technical Facility,” M. Abs *et al.*, arXiv:1511.05130 [physics.acc-ph].