

Kazuhiro Terao

Publication List

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Publications to which I made a direct and essential contribution

- MicroBooNE Collaboration. “A Deep Neural Network for Pixel-Level Electromagnetic Particle Identification in the MicroBooNE Liquid Argon Time Projection Chamber” to be submitted to Phys. Rev. D, in the final stage of collaboration review.
- A. Radovic, M. Williams, D. Rousseau, M. Kagan, D. Bonacorsi, A. Himmel, A. Aurisano, K. Terao, and T. Wongjirad “Machine learning at the energy and intensity frontiers of particle physics” Nature volume 560, pages 41–48 (2018)
- MicroBooNE Collaboration. “Convolutional Neural Networks Applied to Neutrino Events in a Liquid Argon Time Projection Chamber” Journal of Inst. 12 P03011 (2017)
- MicroBooNE Collaboration. “Design and Construction of the MicroBooNE Detector” Journal of Inst. 12 P02017 (2017)
- Double Chooz Collaboration. “First Measurement of θ_{13} from Delayed Neutron Capture on Hydrogen in the Double Chooz Experiment” Phys. Lett. B 723 66-70 (2013)
- J. Lopez, K. Terao, J.M. Conrad, D. Dujmic, L. Winslow. “A prototype detector for directional measurement of the cosmogenic neutron flux” NIM A 673, 22-31 (2012)
- Double Chooz Collaboration. “Indication of Reactor $\bar{\nu}_e$ Disappearance in the Double Chooz Experiment” Phys. Rev. Lett. 108, 131801 (2011)

Publications to which I made a major contribution

- MicroBooNE Collaboration. “Michel electron reconstruction using cosmic-ray data from the MicroBooNE LArTPC” Journal of Inst. 12 P09014 (2017)
- Double Chooz Collaboration. “Direct measurement of backgrounds using reactor-off data in Double Chooz” Phys. Rev. D 87 011102 (2013)
- Double Chooz Collaboration. “Improved measurement of the neutrino mixing angle θ_{13} with the Double Chooz detector” JHEP 10 (2014) 086
- Double Chooz Collaboration. “Measurement of θ_{13} in Double Chooz using neutron captures on hydrogen with novel background rejection techniques” JHEP 01 (2016) 163
- Double Chooz Collaboration. “Reactor $\bar{\nu}_e$ Disappearance in the Double Chooz Experiment” Phys. Rev. D 86, 052008 (2012)

Full Publications Lists

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Google Scholar

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