


















## Publications







### Research profiles

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### Journal articles

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- P. Adamson, *et al.* (NO $\nu$ A Collab.) **First measurement of muon-neutrino disappearance in NOvA.** Phys. Rev. D **93**, 051104(R).  
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- 2014** P. Adamson, *et al.* (MINOS Collab.) **Combined Analysis of  $\nu_\mu$  Disappearance and  $\nu_\mu \rightarrow \nu_e$  Appearance in MINOS Using Accelerator and Atmospheric Neutrinos.** Phys. Rev. Lett. **112**, 191801.  
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- 2013** P. Adamson, *et al.* (MINOS Collab.) **Measurement of Neutrino and Antineutrino Oscillations Using Beam and Atmospheric Data in MINOS.** Phys. Rev. Lett. **110**, 251801.  
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- 2022 H. R. Gadey, R. Howard, *et al.* **Using Cosmic Ray Muons to Assess Geological Characteristics in the Subsurface**. International High-Level Radioactive Waste Management (IHLRWM).  
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- S. C. Tognini, P. Canal, *et al.* **Celeritas: GPU-accelerated particle transport for detector simulation in High Energy Physics experiments**. Submitted to the Proceedings of the US Community Study on the Future of Particle Physics (Snowmass 2021).  
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- 2020 T. M. Evans, S. R. Johnson, *et al.* **Celeritas—a nascent GPU detector simulation code**. Letter of Interest for Snowmass 2021.  
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- 2017 A. Habig, M. Goodman, P. Schreiner, S. C. Tognini, and R. A. Gomes. (On behalf of the NO $\nu$ A Collaboration) **Seasonal Variation of Multiple-Muon Events in MINOS and NO $\nu$ A**. 35<sup>th</sup> International Cosmic Ray Conference (ICRC), Bexco, Busan, Korea.  
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- 2012 S. C. Tognini and R. A. Gomes. **Simulation of atmospheric temperature effects on cosmic ray muon flux**. NuInt12: Eight International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region, Rio de Janeiro (RJ), Brazil. AIP Conf. Proc. **1663**, 120015.  
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 H. R. Gadey, R. Howard, *et al.* **Muon Detector Development Status Report**. Sponsor Report PNNL-32802.
- 2021 J. Meszaros, S. C. Tognini, *et al.* **Underground Research Laboratory Muon Detector Project Progress Report**. Sponsor Report ORNL/SPR-2021/2077.