



## Advances in Neutrino Detectors

Guest Editor:

**Prof. Jonathan Link**

Center for Neutrino Physics,  
Department of Physics, Virginia  
Polytechnic Institute and State  
University, Blacksburg, VA 24061,  
USA

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### Message from the Guest Editor

Since the discovery of neutrino oscillations in 1998, the study of neutrinos has become, alongside the high energy frontier at the *Large Hadron Collider* (LHC), and the search for particle dark matter, one of the three pillars of experimental particle physics. The low-hanging fruit of the three neutrino PMNS mixing matrix has, by now, all been harvested. To varying precisions, we know the values of the three mixing angles and two mass-squared difference scales, but subtler points remain unknown. These include many with profound implications, such as CP violation in neutrino mixing, the absolute neutrino mass scale, the nature of neutrino antimatter, and the number of neutrino flavors. Future progress in neutrino physics is dependent on continued innovation in detector technology, which is why we believe that now is a good time to take stock of our technologies: what is the current state-of-the-art, and where are we going? Do we have the technology we need to address these big questions, or is further innovation required?

Prof. Jonathan Link  
*Guest Editor*





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Enrico Fermi Institute, The  
University of Chicago, Chicago, IL  
60637, USA

## Message from the Editor-in-Chief

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*Instruments* Editorial Office  
MDPI, Grosspeteranlage 5  
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