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Identifying Tau Neutrinos in IceCube

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Astrophysical tau neutrinos were predicted for a long time, but only recently has IceCube been able to identify those at the 5 sigma significance level. The key to this discovery was using machine learning methods to analyse the data. In this talk, I will first give a brief overview of the analysis and results before we dive deeper into the neural nets. We will try to understand how they work and discuss what surprising things we learned.

Primary Field of Research

Presenter: ELLER, Philipp (Wisconsin)

Session Classification: Talks