X NExT PhD Workshop



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Model Building with Reinforcement Learning

Monday 29 March 2021 17:17 (6 minutes)

Machine learning has become an incredibly useful tool for studying string/particle theory. For the most part this research has used Supervised learning, where large data sets from physics and related mathematics have been used to train neural networks. Instead, this talk will address if techniques of reinforcement learning can be used to train a neural network to construct particle physics models. We then demonstrate these ideas by applying them to the Froggatt-Nielsen models of fermion masses. https://arxiv.org/abs/2103.04759v1

Presenter: HARVEY, Thomas (Oxford University) **Session Classification:** Student Session