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Weak Supervision Techniques in Collider Physics

Monday, 24 February 2025 13:30 (1 hour)

In this talk, we will first review CWoLa in the broad framework of weak supervision. Taking the Dark Valley model as an explicit new physics example, we demonstrate how CWoLa can be employed to train a neural network based purely on real data and show its performance in comparison with traditional methods. By way of transfer learning and data augmentation, we illustrate how the performance can be further improved, along with discussions of trends and features of these methods.

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