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## Implementation of Precision Parton Shower Physics into the Herwig Event Generator for LHC Simulation

Thursday, December 14, 2023 9:10 PM (20 minutes)

My PhD project aims to enhance the Parton shower simulation of the Herwig event generator, which is used by particle physicists at the Large Hadron Collider to generate simulated data for comparing detector results and testing new models. My objective is to update the dipole parton shower to account for global recoil. This will make the simulation next to leading logarithmically accurate for global observables and leading logarithmically accurate for non-global observables.

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**Session Classification:** Poster Session & Dinner