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Neural network-based differential equation solver and application to medium induced radiation

Tuesday 16 August 2022 15:50 (20 minutes)

In this talk, I will present the differential equation solver by using machine learning methods and apply it to solve the evolution equation in QCD as the proof-of-concept, such as the DGLAP equation. Moreover, I will use this method to study the medium-induced radiation loss by solving the time-dependent Schrodinger equation (TDSE) for the light-cone path integral (LCPI) approach, developed by Zakharov.

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