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SU(3)-Holonomy and SU(3)-Structure metrics from Machine Learning

Wednesday, 30 June 2021 12:50 (50 minutes)

The metric on the compact internal geometry of a string compacitification has long stood as an important missing piece in the study of low energy physics arising from string theory. I will review recent progress using machine learning to approximate Calabi-Yau and SU(3)-structure metrics, including for the first time their dependence. These methods are demonstrated for Calabi-Yau as well as SU(3)-structure manifolds.

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