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Machine-learning Calabi-Yau metrics

jeudi 30 novembre 2023 11:00 (30 minutes)

Calabi Yau (CY) manifolds are used ubiquitously in research on string theory. Since decades, these spaces have provided the main avenue to connect string theory with observable physics. A stumbling block in these constructions is the lack of an analytical expression for the CY metrics. In this talk I will review recent work on obtaining numerical approximations of CY metrics using machine learning, and the prospects such metrics may have in furthering string theory research.

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Classification de Session: :