

Machine-Learning Algebraic & Geometric Structures: Implications to String Pheno

Friday, 21 June 2019 10:00 (45 minutes)

We report some recent experiments in machine-learning applied to various mathematical problems such as computing Hodge numbers, recognizing elliptic fibrations, distinguishing finite simple groups, etc., many of which have direct consequences in string phenomenology. The mysterious success of the ML, often bypassing traditional expensive algorithms, potentially suggests hitherto unseen structures.

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