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Homotopy algebras in hep-th

Friday 6 September 2024 15:10 (20 minutes)

Symmetries underlie physics. Often, symmetries do not hold exactly but only "up to homotopy" (often synonymous with "on shell"), and this corresponds to the mathematical structure of homotopy algebras (e.g. L∞-algebras). We explore some of the many instances where such structures appear, including colour-kinematics duality, holomorphic twists, the Keldysh-Schwinger formalism, and the AdS/CFT correspondence, as time permits, and how to construct recursion formulas using them.

Link to publication (if applicable)

2303.13596, 2211.13261, 2108.03030, plus works in progress.

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