

Leigh-Strassler theories and their Hopf algebra structure

Monday 23 June 2025 11:00 (30 minutes)

We discuss the underlying mathematical structure that suitably describes the symmetries of the Leigh-Strassler [LS] theories as marginal deformations of the 4D $\mathcal{N} = 4$ super Yang-Mills [SYM]. We present Hopf algebras as a mathematical language suited to describe how to obtain LS theories from the SYM. The hope is obtain a bridge through which to port all the knowledge/lessons/techniques we have learnt from SYM in order to understand more realistic theories.

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