



Contribution ID: 301

Type: **not specified**

4-Point Vertices, Amplitudes and Phase-Space Calculations in the Constructive Standard Model

Tuesday 14 May 2024 16:15 (15 minutes)

We find a complete set of 4-point vertices in the Constructive Standard Model (CSM) by satisfying perturbative unitarity. We use these and the 3-point vertices to calculate a comprehensive set of 4-point amplitudes in the CSM. We also introduce a package to numerically calculate phase-space points for constructive amplitudes and use it to validate the 4-point amplitudes against Feynman diagrams.

This talk is based on the following preprints:

arXiv:2403.07977

arXiv:2403.07978

arXiv:2403.07981

Mini Symposia (Invited Talks Only)

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Session Classification: Quantum Field & String Theory

Track Classification: Quantum Field & String Theory