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Cosmological correlators with massive spinning fields

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Primordial perturbations observed on the CMB are thought to come from cosmological correlators during inflation. While massive (spinning) fields lead to vanishing correlators, their interaction with massless ones can alter the massless field correlators. These changes can be used to infer existence of massive spinning fields during inflation. We will compare two main models of massive spinning fields during inflation, and discuss the similarities and differences of their cosmological signatures. A good part of the talk will also be dedicated to the accurate Feynman rules for computing these correlators, which have not been properly explored in the literature.

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