

Phenomenology 2023 Symposium



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Constructing Operator Basis in Supersymmetry

Monday 8 May 2023 15:30 (15 minutes)

We will talk about a Hilbert series approach to build the operator basis for a $N = 1$ supersymmetry theory with chiral superfields. We give explicitly the form of the corrections that remove redundancies due to the equations of motion and integration by parts. In addition, we derive the maps between the correction spaces. This technique allows us to calculate the number of independent operators involving chiral and antichiral superfields to arbitrarily high mass dimension.

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