

Rare decays with missing energy and light invisible scalars

Thursday, September 25, 2025 10:00 AM (30 minutes)

We discuss possible light invisible scalars in the context of rare decays with missing energy. We first explore the windows remaining in $B \rightarrow K + \text{inv}$ and $K \rightarrow \pi + \text{inv}$ decay modes. We construct simple UV-complete extensions and discuss some resulting phenomenology in parameter regions where the scalars are consistent with dark matter constraints.

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