

Exceptional Composite Dark Matter

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Models of composite Higgs provide a natural explanation of the hierarchy problem and a beautiful rationale for the flavor puzzle. However, and contrary to what happens in other BSM scenarios, they typically lack a natural dark matter candidate unless non-minimal models with symmetric cosets are considered. Here, we will show an example of a non-symmetric coset which nevertheless provide a natural UV completion of the inert triplet model. We will show that the model is extremely predictive and that delivers a \sim TeV WIMP that can provide most of the observed relic abundance while evading direct as well as indirect detection tests.

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