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## Reinterpretation of long-lived particles searches within SModelS

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SModelS provides an efficient framework to reinterpret new physics searches at the LHC in arbitrary theories with  $Z_2$ -odd BSM sectors by a decomposition into simplified model topologies. We show how the signatures of heavy stable charged particles and R-hadrons are embedded in this framework. We discuss recasting of this exotic search and the generation of the simplified model database. Finally, we present two exemplary applications: supersymmetry with a gravitino LSP and the inert doublet model.

## Presentation

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Session Classification: Joint session with Long-Lived Particles Workshop