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Off-shell effects in new physics cascades

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New physics are highly anticipated to be observed in the near future at the LHC. Immediately ensuing a discovery is the determination of intrinsic properties such as masses and spins of new particles. However, many measurements rely on fundamental assumptions, which need not necessarily be fulfilled. One such possibility is a broad resonance at the beginning of a new physics cascade. Using the gluino as an example, we study the implications of off-shell contributions on mass and spin measurements and determine to what extent a discrimination between fundamentally different models is at stake.

Primary author: Mr WIESLER, Daniel (DESY)

Presenter: Mr WIESLER, Daniel (DESY)

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