

# Identification of Extra Neutral Gauge at the LHC

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s-channel resonances are predicted by many models of Physics Beyond the Standard Model and it is quite possible that such an object will be discovered in the early years of the LHC program. If this occurs, the task will be to understand its origins. I will describe various diagnostic measurements to study  $Z'$ 's including some new observables we have proposed that can distinguish between models that take advantage of the ability to tag 3rd generation fermions.

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