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Illuminating Electroweak States at Hadron Colliders

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New electroweak states appear in many BSM theories but are difficult to discover at hadron colliders. When the lightest member of an electroweak multiplet is neutral and all of its components are approximately degenerate, production of the charged components is followed by nearly invisible decays. If these decays occur promptly, the only way to observe them is through MET-based signatures. I show that using photon final state radiation, identification of new electroweak states can be significantly improved.

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