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Mono-Boson Search Strategies for Mass Degenerate Particles

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New light states may be produced in abundance at LHC, however, if they are mass degenerate -with decay products that are soft they may very difficult to detect. Typically in order to detect these states one needs to trigger on initial-or final-state radiation. While analyses have focused on mono-jet and mono-photon triggers. I will argue that these these triggers can fall short, due to the large backgrounds and unfavorable p_T distribution the IRS bosons. Instead, I argue that mono- W and Z triggers, with leptonic Z/W decays or fat jets may well provide the best search strategy. I will analyze the electroweak-ino sector of SUSY as an example case.

Author: CARPENTER, Linda (Ohio State University)

Presenter: CARPENTER, Linda (Ohio State University)

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