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Vector Boson Fusion Topology and Simplified Models for Dark Matter Searches at Colliders

We study the possible searches at colliders using Vector Boson Fusion topology in the context of Simplified Models signatures. We examine the possible physics reach of these searches with regard to monojet-type searches, and determine how these two signatures are complementary. We determine the generic characteristics for dark matter signatures in the LHC if the underlying physics imply Vector Boson Fusion type of production.

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