DIS 2015
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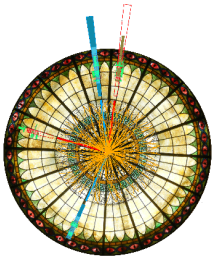

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WA Fusion at Super-TeV Hadron Colliders

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Vector boson fusion processes become increasingly more important at higher collider energies and for probing larger mass scales due to collinear logarithmic enhancements of cross sections. We consider the specific case of WA fusion at hadron colliders, and systematically categorize the contributions from an initial state photon in the elastic, inelastic, and deeply inelastic channels. Scale dependence of the matching scheme is addressed. Application to the production of a hypothetic heavy Majorana neutrino at the 14 TeV LHC and 100 TeV VLHC is briefly discussed.

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