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Electroweak Hjj production in the POWHEG-BOX

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We present an implementation of the full electroweak Higgs plus two jets production process at hadron colliders. Our implementation, including vector-boson fusion and Higgsstrahlung contributions, is built in the framework of the resonance-aware version of the POWHEG BOX, which allows to match next-to-leading order QCD and EW corrections with shower Monte Carlo programs like PYTHIA8.

We provide phenomenological results for setups typical for VBF- and Higgsstrahlung analyses. For both cases we investigate the impact of NLO-QCD and EW corrections and their matching with parton showers.

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