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Dark Matter Searches in Association with the Higgs Boson NA-
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sidad Autonoma de Puebla — What Dark matter (DM) is remains a mystery. When
one refers to it, a non-visible matter that interacts only weakly with standard mat-
ter is implied. In this work, we present the characteristics of the main background
for the search of dark matter in association with the Higgs boson in proton-proton
collisions. By comparing the final states and acceptance of different processes for
the signal selection the largest contribution of the backgrounds is identified.

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