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Searches for invisibly decaying Higgs bosons at ATLAS

The recently discovered Higgs boson at a mass 125 GeV provides an excellent tool to probe beyond the Standard Model physics. Many extensions of the Standard Model predict the decay of the Higgs boson into weakly interacting or neutral particles which do not interact with the detector, that could be candidates for dark matter. Using proton-proton collision data collected by the ATLAS detector during Run 1, searches have been performed for an invisibly decaying Higgs boson in three production channels: via vector boson fusion, produced in association with a hadronically decaying vector boson, and produced in association with a leptonically decaying Z boson.

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