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Exotic Decays of the Higgs Boson

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The discovery of the Higgs Boson presents us with a rich experimental program. In particular its unique sensitivity to the potential existence of new, light, weakly coupled particles can give rise to a large variety of exotic Higgs decays. The explicit search for those decays presents a largely untapped discovery opportunity of new physics for the LHC collaborations. I will describe the motivation and show examples of promising exotic Higgs decay channels based on arXiv:1312.4992.

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