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Search for Hidden Higgs decays in the ATLAS detector

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Hidden Valley models predict Higgs decays to neutral particles. These particles can be also long lived with decay paths comparable to the LHC detectors dimensions. Decay final states consist of collimated leptons (Lepton Jets) or heavy flavors.

Results are presented of a search for Higgs decays to long lived particles in the ATLAS detector at the LHC with a 7 TeV center of mass energy, based on $\sim 2\text{fb}^{-1}$ data collected during 2011.

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