

Search for rare or non-standard production and decay modes of the Higgs boson with the ATLAS detector

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Some theories predict the production of the Higgs boson in association with DM particles, while other theories predict either enhanced decay rates into rare modes like Φ -photon or decays not present in the Standard Model like decays into light pseudoscalar bosons “a” or decays into invisible particles.

This talk summarizes ATLAS searches for such rare or non-standard production or decay modes of the Higgs boson.

Primary author: Prof. CHAKRABORTY, Dhiman (Northern Illinois University)

Presenter: Prof. CHAKRABORTY, Dhiman (Northern Illinois University)

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