

Searches for Heavy Neutral Leptons in the ATLAS Experiment

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Heavy Neutral Leptons (HNLs) are theoretical particles predicted by Beyond the Standard Model (BSM) physics, often introduced to explain phenomena such as neutrino masses and the matter-antimatter asymmetry in the universe. HNLs, particularly those of the Majorana type, can induce lepton number violating processes, making them a subject of great interest. This talk presents the HNL searches conducted within the ATLAS experiment, focusing specifically on the search for HNLs produced in the context of the process $q\bar{q} \rightarrow \ell\ell$ in the t-channel.

Primary author: CHOW, Edwin

Presenter: CHOW, Edwin

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