

Searches for lepton flavor violation and new physics signatures with the ATLAS detector at the LHC

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Hints of new physics observed in B-physics have lead to considerable interests on the flavor sector and lepton flavor violating (LFV) effects observable at the LHC. Searches for LFV decays of the Standard Model particles or new heavy particles have been conducted at the ATLAS experiment. Run 1 LFV search results are presented in this talk, together with searches for other signatures at ATLAS. First LHC Run-2 results will be included if available.

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