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Searches for leptoquarks and heavy leptons with the ATLAS detector at the LHC

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Leptoquarks are hypothetical particles predicted by extensions of the Standard Model, providing an explanation for the similarity between the quark and lepton sectors. Pair-produced scalar leptoquarks have been searched for using final states including leptons and jets. Similar final states are predicted in decays of heavy leptons/neutrinos including Type III neutral/charged leptons as well as heavy Majorana neutrinos produced in decays of heavy right-handed W or SM W boson. In this talk, recent ATLAS results on searches for Leptoquarks and heavy leptons with similar signatures using LHC Run 1 data are presented. First LHC Run-2 results will be included if available.

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