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No Stone Left Unturned? Searches for New Physics with ATLAS

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One of the key missions of the LHC is to search for the unknown and unexpected. The 2012 LHC run at centre of mass energy of 8 TeV has delivered a wealth of data for the ATLAS experiment to analyse. This talk will give a flavour of the variety and breath of searches for physics beyond the Standard Model at ATLAS, ranging from those using relatively clean signatures through to more complicated searches in final states containing top quark pairs, tau leptons and long-lived particles. A variety of different models are covered, from extensions to the SM that include new forces or new dimensions, to searches looking for tiny deviations from known processes.

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