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New physics searches with heavy flavour observables at ATLAS

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New and recent results from the ATLAS programme of studies in EW physics with open beauty are presented. FCNC processes are sensitive to NP contributions, in particular through additional electroweak loop amplitudes. The angular analysis of the decay of $B_d \rightarrow K^* \mu \mu$ for a number of angular coefficients are measured as a function of the invariant mass squared of the di-muon system for data collected at 8 TeV. Comparison is made to theoretical predictions, including for the observable $P'5$, for which there has been recent tension between theory and experiment.

Experimental Collaboration

ATLAS Collaboration

Presenter: DE SANCTIS, Umberto (INFN e Universita Roma Tor Vergata (IT))**Session Classification:** Flavour and symmetries**Track Classification:** Flavour Physics and Fundamental Symmetries