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The analysis of $B^0 \rightarrow K^{*0} \mu \mu$ decays at including S-wave contributions at LHCb

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A status report for the analysis of $B^0 \rightarrow K^*(892)^0 (\rightarrow K^+ \pi^-) \mu^+ \mu^-$ decays at the LHCb detector at the LHC is presented. This process is the decay of a beauty meson to a vector meson final state and produces an angular distribution in the final state decay products. This angular distribution is highly sensitive to the contributions from Beyond Standard Model theories. There is a scalar K^{*0} component which enters into the analysis which has the effect of diluting the angular distribution. This so-called 'S-wave pollution' is addressed.

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