

Supplementary material for LHCb-PAPER-2020-041

1 Wilson coefficients fit

The FLAVIO software package [1] (version 2.0.0) is used to fit the results obtained for the S_i CP -averaged angular observables by varying the real value of the vector coupling $\text{Re}(C_9)$. A likelihood scan as a function of $\text{Re}(C_9)$ is shown in Fig. 9. The q^2 bins included in the fit are the narrow q^2 bins in the range $0.1 < q^2 < 6.0 \text{ GeV}^2/c^4$ and the wide q^2 bin $15.0 < q^2 < 19.0 \text{ GeV}^2/c^4$.

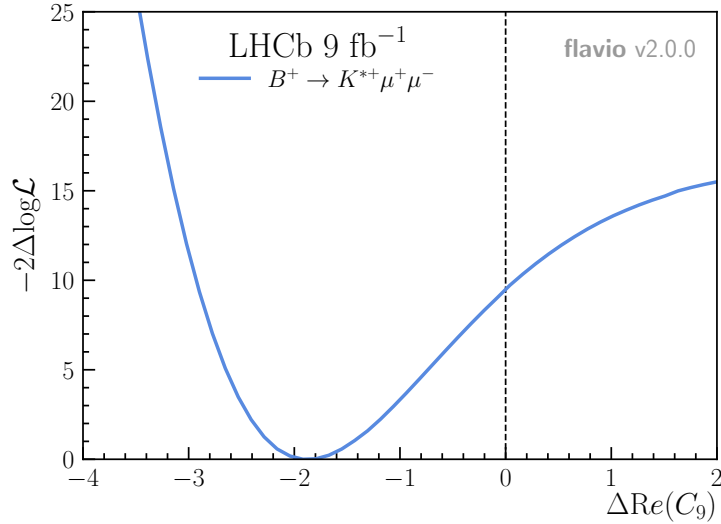


Figure 9: Likelihood scan of the shift of $\text{Re}(C_9)$ from its SM value, $\Delta\text{Re}(C_9)$. Predictions are taken from the FLAVIO software package.

References

- [1] D. M. Straub, FLAVIO: *A python package for flavour and precision phenomenology in the Standard Model and beyond.* [arXiv:1810.08132](https://arxiv.org/abs/1810.08132).