

Supplementary material

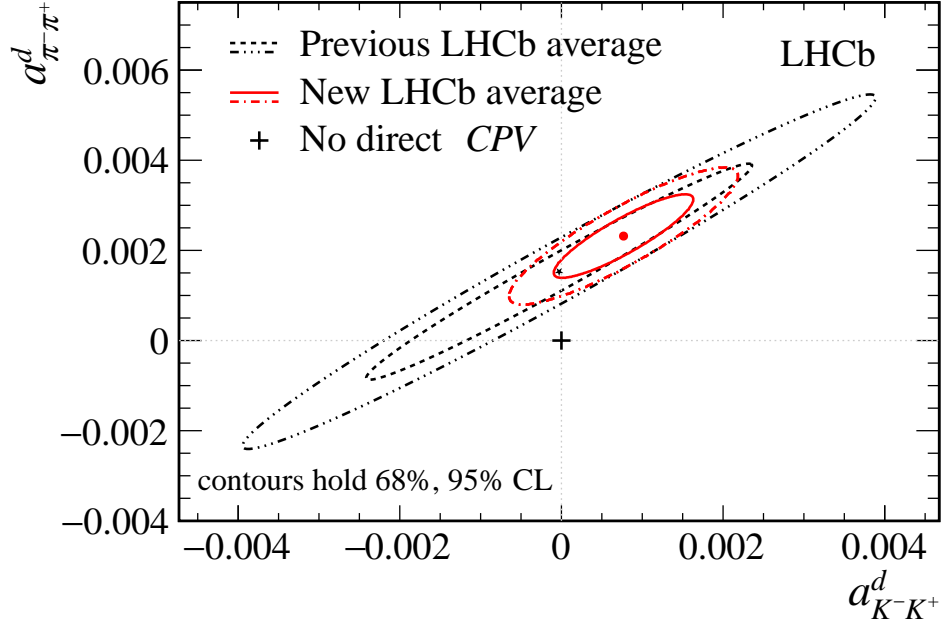


Figure 1: Central values and two-dimensional confidence regions in the $(a_{K^-K^+}^d, a_{\pi^-\pi^+}^d)$ plane for the combinations of the LHCb results obtained with the new $\mathcal{A}_{CP}(K^-K^+)$ measurements and without.

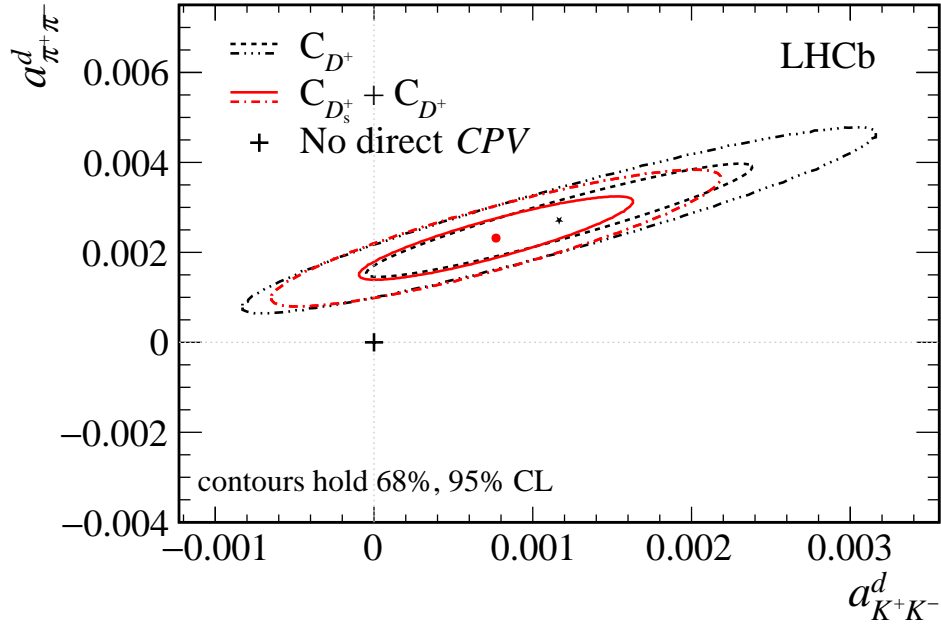


Figure 2: Central values and two-dimensional confidence regions in the $(a_{K^+K^-}^d, a_{\pi^+\pi^-}^d)$ plane for the combinations of the LHCb results obtained with the $C_{D_s^+}$ method and without.

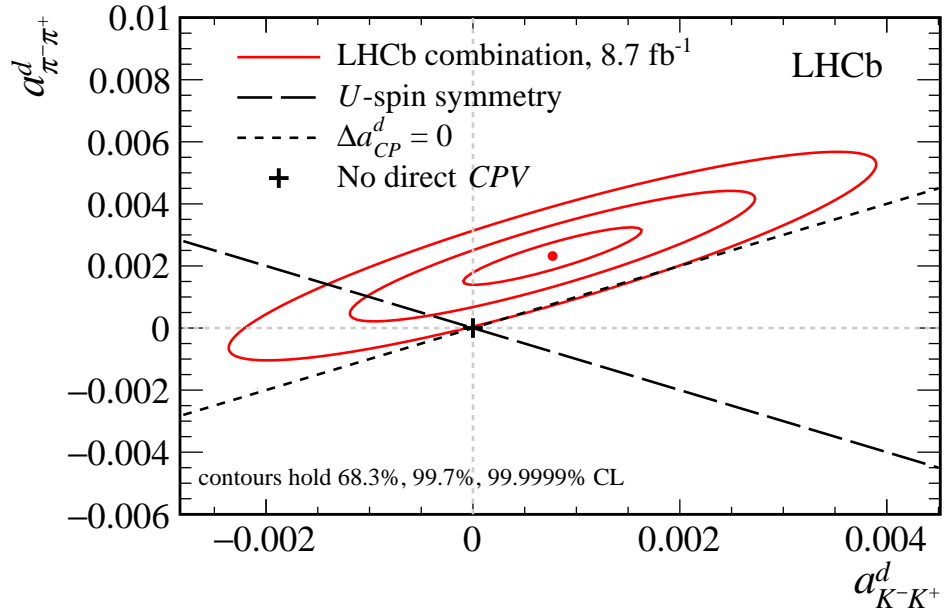


Figure 3: Central value and two-dimensional confidence regions in the $(a_{K^-K^+}^d, a_{\pi^-\pi^+}^d)$ plane for the combination of the LHCb results, where the straight lines correspond to U -spin symmetry, $a_{K^-K^+}^d = -a_{\pi^-\pi^+}^d$, and $\Delta a_{CP}^d = a_{K^-K^+}^d - a_{\pi^-\pi^+}^d = 0$.