Supplementary material for LHCb-PAPER-2022-017

Two-dimensional confidence intervals

Confidence intervals are determined using the profile likelihood method. The difference in the χ^2 with respect to that of the best fit is evaluated at each point in the parameter space of γ and the B-hadronic parameters. The $\Delta\chi^2$ is then interpreted as a p-value under the assumption that it follows a χ^2 distribution with one degree-of-freedom. The confidence intervals, where CL. $\equiv 1 - p$, are shown in Fig. **??**, where single well-behaved minima can be observed in each of the two-dimensional projections.

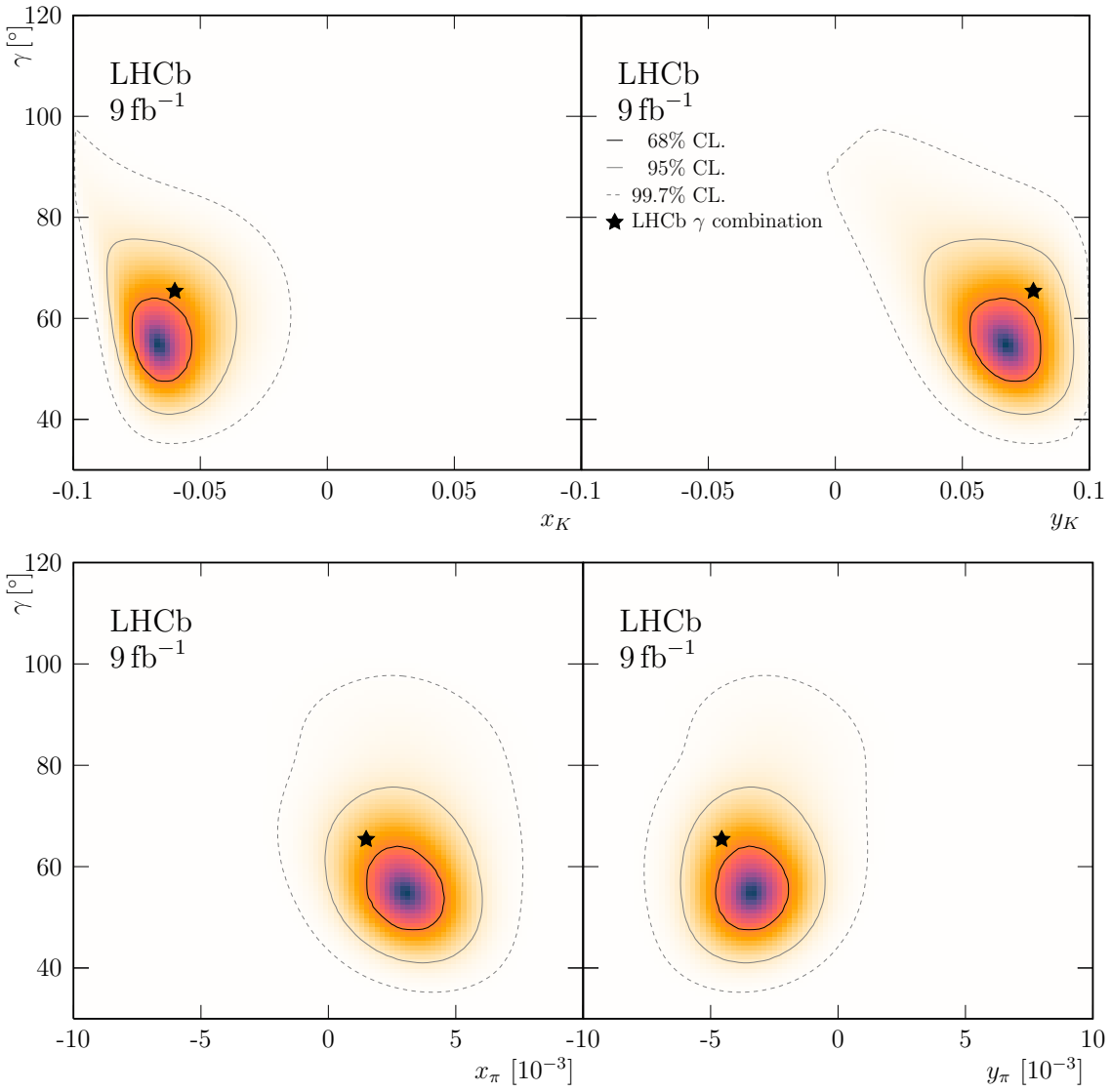

Figure 1: Confidence intervals for γ versus the B-hadronic parameters in the Cartesian parameterisation.