Supplementary material for LHCb-PAPER-2020-039

The projections of angle variables used in the amplitude fit are shown in Fig. 1: they are modelled well by the fit.

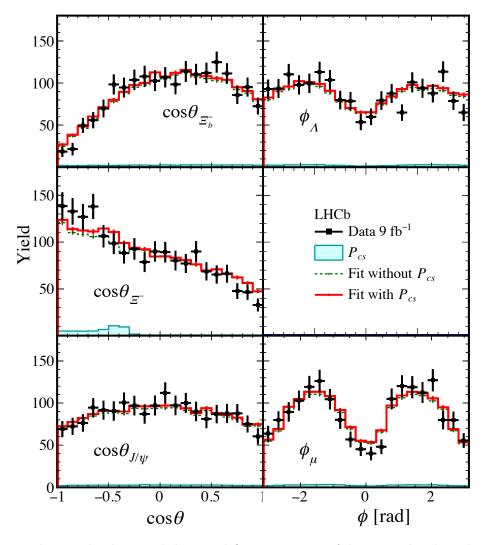


Figure 1: Background-subtracted data and fit projections of decay angles describing the Ξ^{*-} decay chain, which are included in the amplitude fit. The helicity angle of particle P, θ_P , is the polar angle in the rest frame of P between a decay product of P and the boost direction from the particle decaying to P. The azimuthal angle between decay planes of the Ξ_b^- and $\Xi^ (J/\psi)$ particles is denoted as ϕ_A (ϕ_μ) . See Ref. [1] for more details.

References

[1] LHCb collaboration, R. Aaij *et al.*, Observation of $J/\psi p$ resonances consistent with pentaquark states in $\Lambda_b^0 \rightarrow J/\psi p K^-$ decays, Phys. Rev. Lett. **115** (2015) 072001, arXiv:1507.03414.