

412 **8 Supplementary material for LHCb-PAPER-2023-**
 413 **038**

414 Additional differential measurements of $R_{\phi\pi}^{(d,s)}$ as a function of kinematic and geometrical
 415 variables, and of a detector occupancy proxy, are shown in Fig. 7. No significant dependence
 416 as a function of these variables is observed.

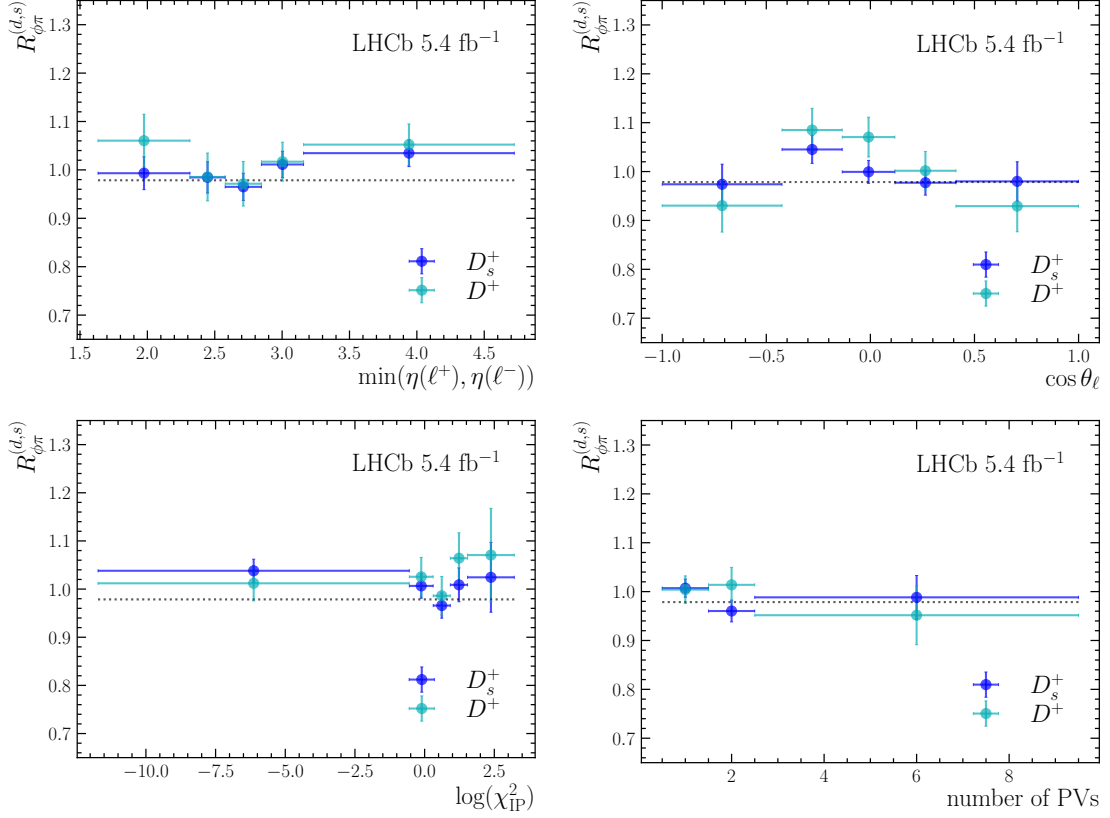


Figure 7: Top: measured $R_{\phi\pi}^{(d,s)}$ as a function of (left) the minimum pseudorapidity of the two leptons, and (right) the angle between the positively charged lepton momentum and the mother meson direction in the dilepton rest frame, $\cos\theta_\ell$. Bottom: measured $R_{\phi\pi}^{(d,s)}$ as a function of (left) the difference in χ^2 of track fit to a given primary vertex when reconstructed with and without the considered candidate B^+ or $D_{(s)}^+$ meson and (right) the total number of reconstructed primary vertices in the event. The uncertainties shown are statistical only.