¹ Supplementary material for LHCb-PAPER-2020-030

² Figure 1 shows the distribution of BIC values obtained by scanning over the LASSO ³ parameter λ for the first and second steps of the model selection.

Figure 2 shows the decay-time distribution of prompt candidates used to calibrate the per-candidate decay-time uncertainty.



Figure 1: Difference in the BIC value from its minimum as function of the LASSO parameter λ for the (left) first and (right) second step of the model selection.



Figure 2: Decay-time distribution for candidates reconstructed from promptly produced D_s^{\mp} candidates combined with random prompt $K^{\pm}\pi^{\pm}\pi^{\mp}$ companion tracks using Run 2 data.