Supplementary material for LHCb-PAPER-2018-019

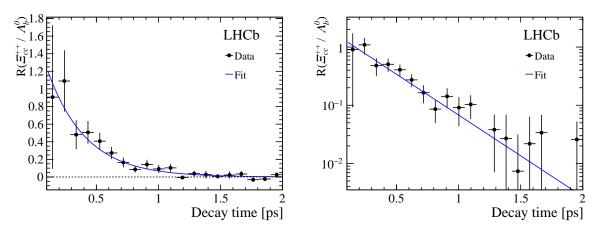


Figure 1: Background-subtracted and acceptance-corrected decay-time ratio between the $\varXi_{cc}^{++} \to \varLambda_c^+ K^- \pi^+ \pi^+$ and $\varLambda_b^0 \to \varLambda_c^+ \pi^- \pi^+ \pi^-$ decays, in (left) linear scale and (right) logarithmic scale. The bins with negative contents are not shown in the right figure. The solid lines correspond to the exponential function, $e^{-\left(\frac{1}{\tau(\varXi_{cc}^{++})} - \frac{1}{\tau(\varLambda_b^0)}\right)t}$, with the measured value of the \varXi_{cc}^{++} lifetime (0.256 ps) and the world-average value of the \varLambda_b^0 lifetime (1.470 ps).