

Supplementary material for LHCb-PAPER-2018-028

This appendix contains supplementary material that will be posted on the public cds record but will not appear in the paper.

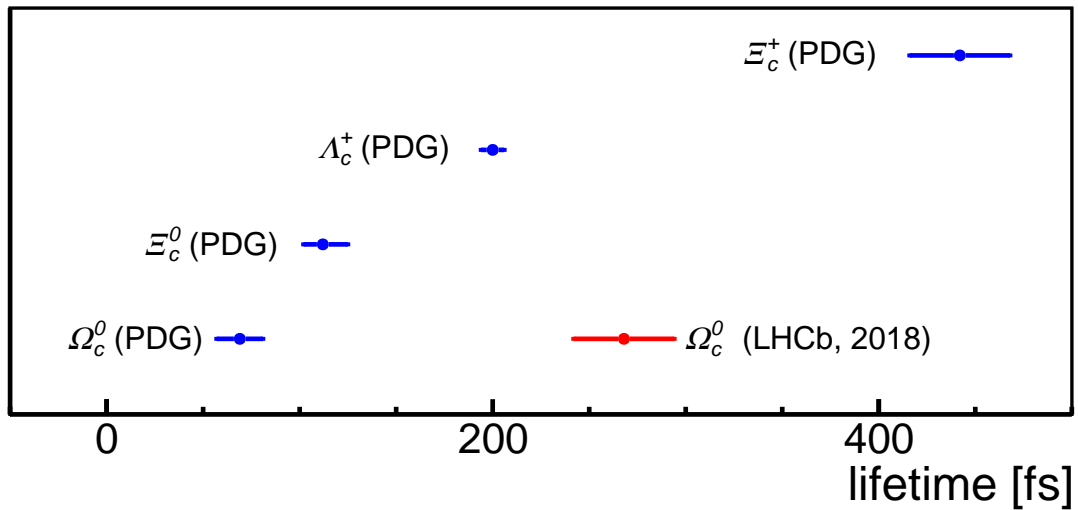


Figure 1: World average lifetimes of the weakly decaying charm baryons [1], along with the additional Ω_c^0 lifetime measured by LHCb in this analysis.

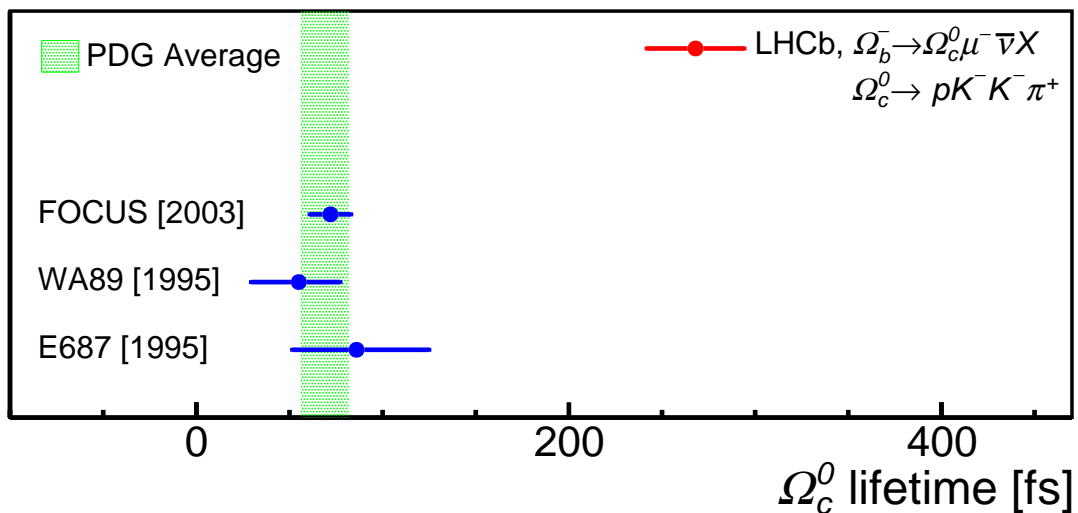


Figure 2: Graph showing previous measurements of the Ω_c^0 baryon lifetime, the world-average value, and the measurement from LHCb obtained in this analysis.

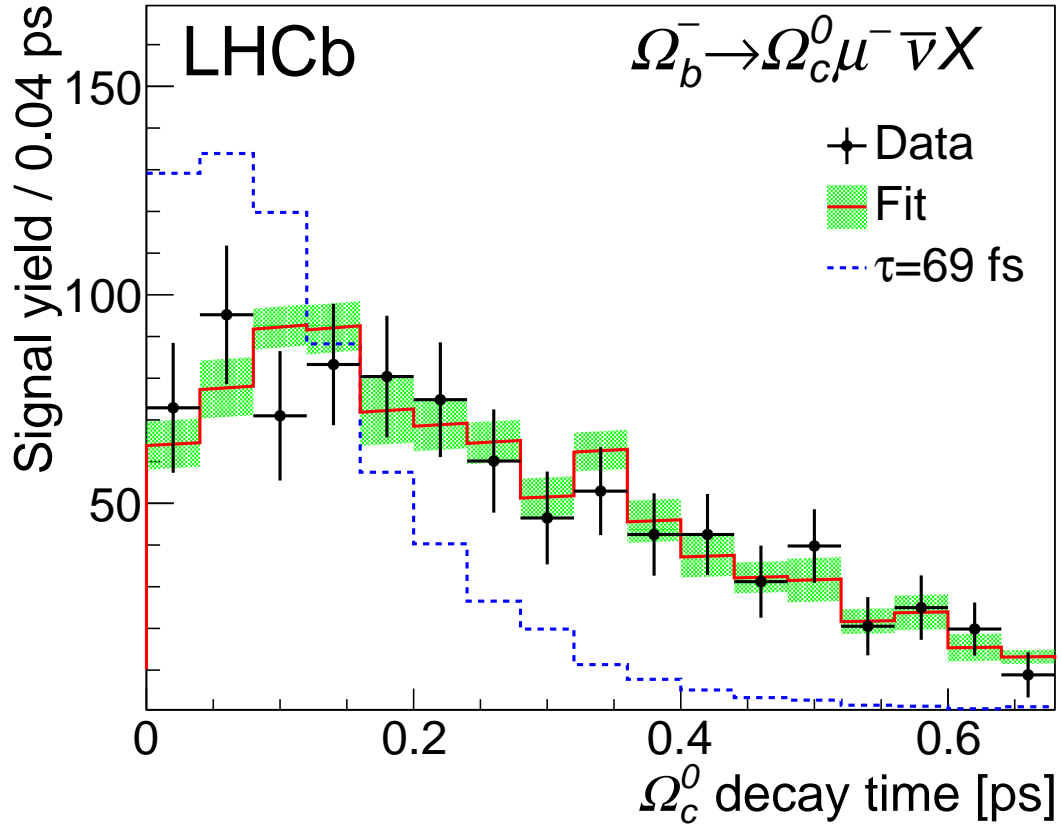


Figure 3: Decay-time spectra for Ω_c^0 signal decays in $\Omega_b^- \rightarrow \Omega_c^0 \mu^- X$ events, along with the distribution expected if the Ω_c^0 lifetime is 69 fs.

References

- [1] Particle Data Group, M. Tanabashi *et al.*, *Review of particle physics*, Phys. Rev. **D98** (2018) 030001.