

## **B $\rightarrow$ D(\*) $\ell\nu$ at BaBar and Lambda<sub>b</sub> $\rightarrow$ Lambda<sub>c</sub>tau $\nu$ at LHCb**

*Tuesday, September 24, 2024 10:30 AM (30 minutes)*

I will present two sets of results:

1/ legacy BaBar B $\rightarrow$ D(\*) $\ell\nu$  with  $\ell=e/\mu$ , angular analyses. This will cover <https://arxiv.org/abs/2311.15071> and an update to: <https://arxiv.org/abs/1903.10002>, including all lattice B $\rightarrow$ D results in a joint BaBar+lattice fit.  
2/ Lambda<sub>b</sub> $\rightarrow$ Lambda<sub>c</sub>tau $\nu$ , for 3-prong hadronic tau, at LHCb. The Run1 R(Lc) analysis is being updated to Run1+2. This includes a separate update to BR(Lambda<sub>b</sub> $\rightarrow$ Lambda<sub>c</sub>3pi), for the normalization mode. I will also discuss possibilities for angular studies in this mode, including both 3-prong Lambda<sub>c</sub> $\rightarrow$ pKpi, and 2-prong Lambda<sub>c</sub> $\rightarrow$ {pKs, Lambda0pi} modes.

**Author:** DEY, Biplab (Eotvos U.)

**Presenter:** DEY, Biplab (Eotvos U.)

**Session Classification:** Heavy to heavy exclusive