

Inclusive $B \rightarrow X_u \ell \nu$: Towards NNLO Extractions of V_{ub}

Thursday, September 26, 2024 2:00 PM (30 minutes)

In this talk, I will present a short overview of inclusive $b \rightarrow u$ semileptonic decays, focusing on the current status of the BLNP and GGOU approaches—the two most active frameworks for V_{ub} extractions in recent years. I will delve deeper into the GGOU approach, highlighting our work and status on the NN V_{ub} framework, which utilises neural networks for parametrising the required shape functions. I will very briefly discuss the calculation of perturbative power-suppressed corrections. And finally, I will outline our ongoing work on the extraction of NNLO corrections to the fully differential decay distribution.

Presenter: CAPDEVILA, Bernat (IFAE)

Session Classification: Heavy to light inclusive