Contribution ID: **22**   Type: **not specified**

Inclusive $B\!-\!>\!X_u\ell\nu$: **Towards NNLO Extractions of** V_{ub}

Thursday 26 September 2024 14:00 (30 minutes)

In this talk, I will present a short overview of inclusive $b \to u$ 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 NNVub 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