Contribution ID: **1** Type: **not specified**

The q^2 moments in inclusive semileptonic B decays

Wednesday 25 September 2024 10:30 (30 minutes)

In this talk I will present the calculation of moments of the q^2 distribution in inclusive semileptonic B decays with a lower cut on the dilepton invariant mass q^2, confirming known results. The theoretical predictions are then used in a global fit to moments of the spectrum of inclusive semileptonic B decays, allowing the extraction of $|V_{cb}|$. The fit includes the recently measured q^2 moments, together with moments in the lepton energy and hadronic invariant mass. The uncertainty on the non-perturbative parameters and on $|V_{cb}|$ slightly decreases, yielding to the final value $|V_{cb}| = (41.97 \pm 0.48) \times 10^{-3}$.

Primary authors: FINAURI, Gael; GAMBINO, Paolo (University of Turin)

Presenter: FINAURI, Gael

Session Classification: Heavy to heavy inclusive