ID de Contribution: **32** Type: **Theoretical**

CP Violation and Angle γ through $B_s^0 \to D_s^{\mp} K^{\pm}$ Decays

mercredi 20 août 2025 10:30 (15 minutes)

Flavour physics plays a central role in testing the Standard Model and searching for possible hints of New Physics. Precise measurements of CP violation provide stringent tests of the SM framework. The CKM angle γ is a key parameter in this context, and a theoretically clean way to determine it is through the $B_s^0 \to D_s^{\mp} K^{\pm}$ decay system. Recent experimental updates measuring CP-violating observables in these decays have been performed by LHCb. The intriguing patterns arising highlight the need for a thorough theoretical analysis. We develop a model-independent approach to incorporate potential New Physics contributions and apply it to the data. Such a method offers promising avenues to uncover new sources of CP violation in the upcoming high-precision era of B physics.

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Classification de Session: B-Decays and CP Violation

Classification de thématique: CP Violation