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Recent results of the CKM angle γ measurement at LHCb and prospect for Run III and Run IV

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The CKM angle γ is the least precise measured parameter of the Unitary Triangle. Discrepancies between precise measurements of the CKM angle γ in the tree-level and loop dominated processes might provide evidence of New Physics - beyond the Standard Model. The value can be well determined by exploiting the interference between favored ⊠→⊠ and suppressed ⊠→ ⊠ transition amplitudes (e.g. ⊠→⊠⊠ decay). Selected results of the Cabibbo-Kobayashi-Maskawa (CKM) angle γ measurements, with special attention for ⊠→⊠⊠ decays family, obtained at the LCHb will be discussed. A quick overview of the upgrade of the LHCb spectrometer and prospect for future measurements during Run III and Run IV at LHC will be also presented.

Primary author: KRUPA, Wojciech (AGH UST)

Presenter: KRUPA, Wojciech (AGH UST)

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