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【331】 Precision measurement of neutral charm meson mixing parameters at LHCb

Wednesday, June 29, 2022 2:30 PM (30 minutes)

The study of CP violation and mixing in charm meson decays is a probe of possible interactions beyond the Standard Model, and is complementary to the Beauty sector. The LHCb experiment, at CERN, has collected copious data samples of billions of charm hadron decays from 2011 to 2018, allowing to study CP violation and mixing in D^0 meson decays at extremely high precision.

This talk will present the experimental challenges of the measurement of the charm-mixing parameter γ_{CP} at LHCb. The final measurement is seen to improve its current world average by a factor of four.

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