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CP violation studies at CMS

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CP violation plays a crucial role in our understanding of the universe's matter-dominated nature. Without CP violation, the Standard Model of particle physics cannot fully explain why the observable universe consists predominantly of matter, as opposed to an equal mix of matter and antimatter. The search for new sources of CP violation is essential for understanding the dynamics that could have led to this imbalance, offering potential insights into physics beyond the Standard Model. This talk discusses the latest results from the CMS experiment at $\sqrt{s} = 13$ TeV, focusing on CP violation in heavy flavor physics.

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