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Type: **Plenary presentation**

Direct CP violation and the $\Delta I=1/2$ rule in $K \rightarrow \pi\pi$ decay from the Standard Model

Tuesday 27 July 2021 09:00 (20 minutes)

I will discuss the RBC & UKQCD collaboration's recent lattice calculation of ϵ' , the measure of direct CP-violation in kaon decays. This result significantly improves on our previous 2015 calculation, with nearly 4x the statistics and more reliable systematic error estimates. I will also discuss how our results demonstrate the Standard Model origin of the $\Delta I = 1/2$ rule, and will present our plans for future calculations.

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