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Type: Talk

K- \rightarrow pi-pi decay, ϵ' and the RBC-UKQCD kaon physics program

Wednesday, September 11, 2019 11:10 AM (30 minutes)

An overview of the kaon physics program of the RBC and UKQCD collaborations will be presented with a focus on the lattice calculation of K- \rightarrow pi-pi decay and the direct CP violation parameter ϵ' . We will describe substantial improvements to our earlier 2015 K- \rightarrow pi-pi calculation, including the use of three independent pi-pi interpolating operators and the results we obtain for I=0 pi-pi scattering for energies at and below the kaon mass. While a new result for ϵ' is not yet complete, the enhanced statistics and improved analysis that underlies our expanded calculation will be presented.

Presenter: CHRIST, Norman (Columbia University)

Session Classification: Epsilon'/Epsilon