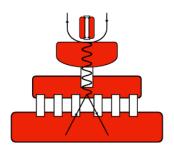
International Conference on Kaon Physics 2019



Contribution ID: 61 Type: Talk

K->pi-pi decay, epsilon' and the RBC-UKQCD kaon physics program

Wednesday 11 September 2019 11:10 (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->pi-pi decay and the direct CP violation parameter epsilon'. We will describe substantial improvements to our earlier 2015 K->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 epsilon' 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