

Contribution ID: 587

Type: Oral presentation

$K \to \pi\pi$ decay matrix elements at the physical point with periodic boundary conditions

Monday, 26 July 2021 22:00 (15 minutes)

We calculate $K \to \pi\pi$ matrix elements using periodic boundary conditions as an independent calculation from our previous calculation with G-parity boundary conditions. We present our preliminary results for physical masses on a 24^3 , $a^{-1} = 1$ GeV, 2 + 1-flavor Mobius DWF ensemble generated by the RBC and UKQCD collaborations and discuss the prospect for high-precision computation of ϵ' with periodic boundary conditions.

Primary authors: TOMII, Masaaki; BLUM, Thomas; HOYING, Daniel (UConn/BNL); IZUBUCHI, Taku (Brookhaven National Laboratory); JIN, Luchang; JUNG, Chulwoo (Brookhaven National Laboratory); SONI, AMARJIT (BNL)

Presenter: TOMII, Masaaki

Session Classification: QCD in searches for physics beyond the Standard Model

Track Classification: QCD in searches for physics beyond the Standard Model