

**Preliminary Analysis of  $K \rightarrow \pi\pi$  with 2+1 Flavor DWF Lattices  
on QCDOC**

**Presenter: Shu Li** (Columbia University)

*Shu Li and RBC-UKQCD Collaboration*

Abstract: I present the analysis of  $K \rightarrow \pi\pi$  weak matrix elements on the 2+1 flavor dynamical domain-wall fermion lattices. The analysis uses partially quenched chiral perturbation theory and the measurements of  $K \rightarrow \pi$  and  $K \rightarrow 0$ . The low energy constants such as  $B_7$  and  $B_8$  are calculated. The calculation is mainly done on  $16^3 \times 32$  lattices. Some analysis on  $24^3 \times 64$  volume are also included.