



Contribution ID: 127

Type: **Parallel Talk**

## Progress in generating gauge ensembles with Stabilized Wilson Fermions

*Friday, 4 August 2023 09:00 (20 minutes)*

The continued generation of  $n_f = 2 + 1$  quark flavor gauge configurations using stabilized Wilson fermions by the open lattice initiative (OpenLat) is reported. We present the status of our ongoing production and show updates on increasing statistics at the four lattice spacings  $a = 0.12, 0.094, 0.077$  and  $0.064$  fm. Aside from the flavor symmetric point we discuss advancements in going towards physical pion masses. We show preliminary results of the pion decay constants, extending previous results, and discuss standard hadronic and flow observables on all available ensembles.

### Topical area

Hadronic and Nuclear Spectrum and Interactions

**Primary author:** Prof. FRANCIS, Anthony (National Yang Ming Chiao Tung University)

**Co-authors:** CUTERI, Francesca (J. W. Goethe Universitaet Frankfurt); FRITZSCH, Patrick (Trinity College, Dublin); PEDERIVA, Giovanni (Michigan State University); RAGO, Antonio (Ø3-Origins, University of Southern Denmark, 5230 Odense, Denmark); SHINDLER, Andrea (Michigan State University); WALKER-LOUD, Andre (LBNL); ZAFEIROPOULOS, Savvas (Universitaet Heidelberg)

**Presenter:** Prof. FRANCIS, Anthony (National Yang Ming Chiao Tung University)

**Session Classification:** Hadronic and Nuclear Spectrum and Interactions