



Contribution ID: 446

Type: **Talk**

## Scale setting on the 2+1+1 HISQ ensembles: progress report

*Friday 2 August 2024 15:15 (20 minutes)*

We discuss recent progress on determining the gradient flow scales  $t_0$  and  $w_0$  on the 2+1+1 HISQ ensembles generated by the MILC collaboration. For the relative scale setting we explore several discretization schemes of the action density for the flow and observable. For the absolute scale setting, we report some preliminary results on the Omega baryon mass computation with HISQ.

**Primary author:** BAZAVOV, Alexei (Michigan State University)

**Co-authors:** EL-KHADRA, Aida (University of Illinois Urbana-Champaign); KRONFELD, Andreas (Fermilab); GREBE, Anthony (Fermi National Accelerator Laboratory); DETAR, Carleton (University of Utah); BERNARD, Claude (Washington University); GAMIZ, Elvira (University of Granada); HOSTETLER, Leon (Indiana University); GOTTLIEB, Steven (Indiana University); HELLER, Urs (Physical Review D, American Physical Society); JAY, William (MIT); LIN, Yin (MIT)

**Presenter:** BAZAVOV, Alexei (Michigan State University)

**Session Classification:** Standard Model parameters

**Track Classification:** Standard Model Parameters