



Contribution ID: 278

Type: **Talk**

Precision charmonium spectroscopy on CLS ensembles

Tuesday, 30 July 2024 11:55 (20 minutes)

The masses of the lowest charmonium states are determined on a large set of coordinated lattice simulations (CLS) gauge ensembles with $N_f = 2 + 1$ sea quark flavours of non-perturbatively improved Wilson fermions. The inverse lattice spacing is varied from about 2 GeV up to more than 5 GeV, enabling a controlled continuum limit extrapolation. This allows the impact of the neglected charm quark annihilation diagrams and the electromagnetic interaction to be assessed.

Primary authors: BALI, Gunnar (University of Regensburg); COLLINS, Sara (University of Regensburg); SPIEGEL, Sebastian (Universität Regensburg); SOELDNER, Wolfgang (Regensburg University)

Presenter: BALI, Gunnar (University of Regensburg)

Session Classification: Hadronic and nuclear spectrum and interactions

Track Classification: Hadronic and Nuclear Spectrum and Interactions