Contribution ID: **406** Type: **Poster Presentation**

Strange and charm contribution to the HVP from C* boundary conditions

Tuesday, 9 August 2022 20:00 (1 hour)

We present preliminary results for the leading strange and charm connected contributions to the hadronic vacuum polarization contribution to the muon's g-2. Measurements are performed on the RC*collaboration's QCD ensembles, with* $N_f = 3 + 1$ $O(a)$ *improved Wilson fermions and C* boundary conditions. The HVP is computed on a single value of the lattice spacing and two lattice volumes. In addition, we compare the signal-to-noise ratio for different lattice discretizations of the vector current.

Primary author: TAVELLA, Paola (ETH)

Co-authors: PATELLA, Agostino (Humboldt University Berlin); COTELLUCCI, Alessandro (Humboldt University Berlin); ALTHERR, Anian (ETH Zürich); CAMPOS PLASENCIA, Isabel (Consejo Superior de Investigaciones Cientificas (CSIC) (ES)); KOMIJANI, Javad (ETH Zurich); LÜCKE, Jens (Humboldt University Berlin); PINTO BARROS, Joao C. (ETH Zürich); BUSHNAQ, Lucius; DALE, Madeleine; CATILLO, Marco; KRSTIC MARINKOVIC, Marina (ETH Zurich); TANTALO, Nazario (University and INFN of Rome Tor Vergata); FRITZSCH, Patrick (Trinity College Dublin); GRUBER, Roman (ETH Zürich); MARTINS, Sofie (University of Southern Denmark)

Presenter: TAVELLA, Paola (ETH)

Session Classification: Poster

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