

## **2+1 flavor QCD contributions to the muon anomalous magnetic moment**

**Presenter: Tom Blum** (Univ. of Connecticut and RIKEN BNL Research Center)

*Christopher Aubin, Tom Blum*

Abstract: We present our final results for the lowest order hadronic contribution to the muon anomalous magnetic moment calculated using 2+1 flavors of asqtad fermions on lattices generated by the MILC Collaboration (a 0.086 fm). We discuss the extrapolation to the physical light quark mass which is "phenomenological" since our data is above (but close to) the two pion threshold. We also present preliminary results for the continuum extrapolation of these contributions, again by computing on lattices (a 0.12 fm) generated by the MILC Collaboration.