Contribution ID: **56** Type: **not specified**

QCD at imaginary chemical potential with Wilson fermions

Tuesday, 18 February 2014 11:00 (30 minutes)

We investigate the phase diagram in the temperature, imaginary chemical potential plane for Nf=3 QCD using Wilson type fermions. While more expensive than the staggered fermions used in past studies in this area, Wilson fermions can be used safely to simulate systems with three quark flavors. In this talk, we focus on the (pseudo)critical line that extends from mu=0 in the imaginary chemical potential plane, trace it to the Roberge-Weiss line, and determine its location relative to the Roberge-Weiss transition point. Our results are compatible with the standard expectations.

Presenter: ALEXANDRU, Andrei