



Contribution ID: 321

Type: **Talk**

Charmonia and bottomonia at finite temperature on large quenched lattice

Friday, 17 July 2015 14:20 (20 minutes)

We present our updated study on charmonia and bottomonia at finite temperature with quenched ensembles on large and fine isotropic lattices. Simulations have been performed by using the standard plaquette gauge and the $O(a)$ -improved Wilson fermion actions in a region of quark mass for charmonia to bottomonia in order to investigate difference of in-medium behavior between them. We show spectral functions of quarkonia at temperatures in a range between about $0.73T_c$ and $2.2T_c$ at both vanishing and finite momenta and discuss about their temperature, quark mass and momentum dependence.

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Session Classification: Nonzero Temperature and Density

Track Classification: Nonzero Temperature and Density