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## Quarkonia and heavy quark diffusion in the hot gluonic medium

*Wednesday, May 19, 2021 10:30 AM (20 minutes)*

We will discuss thermal modifications of charmonium and bottomonium spectral properties in a hot gluonic medium from continuum extrapolated lattice results. The dissociation temperatures of quarkonia as well as charm and bottom quark diffusion coefficients are presented in the temperature region from  $1.1T_c$  to  $2.25T_c$  in the quenched approximation with valence quarks tuned to physical  $J/\psi$  and  $\Upsilon$  masses. The results are obtained by incorporating theoretically and perturbatively inspired models for the spectral functions compared to continuum extrapolated correlation functions measured on the lattice.

### Collaboration

**Primary author:** Dr SHU, Hai-Tao (Bielefeld University)

**Co-authors:** KRUSE, Anna-Lena (Bielefeld University); Dr SANDMEYER, Hauke; Prof. DING, Heng-Tong (CCNU); Dr OHNO, Hiroshi (Center for Computational Sciences, University of Tsukuba); KACZMAREK, Olaf (University of Bielefeld); Dr LARSEN, Rasmus; MUKHERJEE, Swagato (Brookhaven National Laboratory)

**Presenter:** Dr SHU, Hai-Tao (Bielefeld University)

**Session Classification:** Heavy Flavor (Open charm)

**Track Classification:** Bulk matter phenomena associated with strange and heavy quarks