Contribution ID: **545**   Type: **Oral presentation**

Reconstruction of bottomonium spectral functions in thermal QCD using Kernel Ridge Regression

Friday, 30 July 2021 07:45 (15 minutes)

We discuss results for bottomonium at nonzero temperature obtained using NRQCD on FASTSUM Generation 2L ensembles. We give an update on results for spectral functions obtained using Kernel Ridge Regression, paying in particular attention to the generation of training data. We compare our findings to estimates of masses of both ground- and the first excited states obtained using multi-exponential fits.

Primary author: Mr OFFLER, Samuel (Swansea University)

Co-authors: PAGE, Ben (Swansea University);   JAEGER, Benjamin (University of Southern Denmark);   ALLTON, Chris (Swansea University);   AARTS, Gert (Swansea University);   SKULLERUD, Jon-Ivar (National University of Ireland Maynooth);   LOMBARDO, Maria Paola (INFN);   KIM, Seyong (Sejong University);   RYAN, Sinead (Trinity College Dublin);   SPRIGGS, Thomas (Swansea University)

Presenter: Mr OFFLER, Samuel (Swansea University)

Session Classification: QCD at nonzero Temperature and Density

Track Classification: QCD at nonzero Temperature and Density