

[QMS2020 invited talk]

## **Bosonic spectrum of multiband correlated electron systems, K-doped Ba-122**

Jungseek Hwang

*Department of physics, Sungkyunkwan University, Suwon 16419, Republic of Korea*  
email: jungseek@skku.edu

One may be able to extract the bosonic spectral function from measured optical spectrum, particularly, inelastic scattering response function or the optical conductivity. There has been known that the mediated phonon spectra of conventional BCS superconductors can be obtained by various experimental spectroscopy techniques including optical spectroscopy and theoretical calculations. The doping- and temperature- dependent bosonic spectral functions of cuprate systems has also been obtained various experimental spectroscopy techniques. In this presentation we will discuss about temperature- and doping-dependent bosonic spectral functions, which were recently extracted from measured optical spectra of multiband superconducting system, K-doped Ba122 systems.