

# APCTP SEMINAR

## Thermal properties of light mesons from holography

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**Dec. 9 (Thu.) 17:00 (KST)**

**Online via ZOOM**

In this talk, I will discuss the thermal properties of light mesons, including the temperature dependences of their masses (both screening and pole masses) and thermal widths in a two-flavor ( $N_f=2$ ) soft-wall AdS/QCD model. The screening masses are extracted from the poles of spatial correlation functions, while the pole masses ( $m_{\text{pole}}$ ) and thermal widths ( $\Gamma$ ) are from temporal correlations. The temperature dependences of those quantities are nontrivial behavior, which is strongly related with chiral phase transition. We also numerically verify that the spectral functions in the temporal regime are strongly related to the quasi-normal modes with complex frequencies  $\omega_0 = m_{\text{pole}} - i\Gamma/2$ .

### ■ ZOOM Webinar

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