

APCTP SEMINAR

Effective actions and bubble nucleation from holography

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September 16th (Thu.) 16:00 (KST)

Online via **ZOOM**

I will discuss the computation of effective actions at strong coupling using holographic duality. Once found, the effective action can be used to map out the phase diagram of a theory and to study the process of bubble nucleation. I will focus on two different holographic setups where bubble nucleation can be shown to occur; a simple gravity+scalar theory, and the gravity dual of the Klebanov-Witten gauge theory. In the former, the operator dual to the scalar field acts as an order parameter. In the latter, the order parameter is the position of a D-brane in the bulk, and bubble nucleation corresponds to D-branes being emitted from the black brane horizon.

■ ZOOM Webinar

- 1) Please register through this ZOOM link
<https://us06web.zoom.us/join/joinMeeting/register/tZAuduCgqjsiG9X1B6wwP9T53Y0VNVvwDezn>
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