

**The 101st HENPIC seminar by Dr. Mamiya
Kawaguchi, Fudan University , April 23rd, 2020,
Thursday, 10:30am (Beijing time)**

Title: Anomalous transport from scale symmetry

Abstract:

The anomalous transport (current) induced from the chiral anomaly has been extensively studied in strong electromagnetic field regions relevant to the heavy ion collision in order to reveal the novel aspect for understanding the QCD phase structure. Paying an attention to the scale symmetry of QCD, the scale anomaly is also closely tied with the vacuum structure of QCD. Thus, in nonzero electromagnetic fields the QCD scale anomaly would be expected to generate new anomalous currents involving the essential feature of QCD. In this seminar, I will talk about the anomalous current induced by the scale anomaly based on the dilaton effective model.
