

Joint Condensed Matter and Center for Soft Matter and Biological Physics Seminar

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"Onsager Variational Principle and its Applications in

Soft Matter Systems"

Monday, October 19, 2020

Special time:

9:00am – 10:00am

Virtual Meeting:

Zoom Link: https://virginiatech.zoom.us/j/93754312121

Onsager principle is the variational principle proposed by Onsager in his celebrated paper on the reciprocal relation. The principle is useful not only in deriving many evolution equations in soft matter systems, it is also useful in solving such equations approximately. Three examples are discussed: the capillary filling and rising, the stratification in binary colloidal solutions, and the viscoelasticity of polymer solutions. These examples show that the method can give new perspectives of the essential dynamics in soft matter systems.

