



سمینار هفتگی ماده چگال نرم

## A Study of Membrane Fluctuations Using the Virtual Cell Model

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### Abstract

We will discuss the thin shell theory and how it can be used to study the fluctuation spectrum of a spherical cell nucleus membrane (nuclear envelope). We will then use VCM\* to simulate a fluctuating membrane and study how the fluctuations can be affected by external perturbation. We will then use the membrane model to study polymers under fluctuating confinements.

\*VCM: The Virtual Cell Model molecular dynamics software package developed in Prof Reza Ejtehadi's softmatter group.

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مکان (کلاس مجازی آقای دکتر اجتهادی):

<https://vclass.ecourse.sharif.edu/ch/ejtehadi>