



سمینار هفتگی ماده چگال نرم

## Modeling Thermal Fluctuations of a Thin Shell

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### Abstract

As a part of my PhD thesis I am interested in how chromatin behave inside the confinements of the cell nucleus. The nucleus is sandwiched between two highly active systems, the chromatin and the cytoskeleton. In this talk I am going to present some of Alexandra Zidovska's (NYU) results on measuring and quantifying nucleus fluctuations. I will also talk about the thin shell model and how David R. Nelson and Gerhard Gompper utilise it to paint a picture of the membrane fluctuations. Finally, I will apply some of the calculations to the Virtual Cell Model (Developed in our group).

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مکان (کلاس مجازی آقای دکتر اجتهادی):

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