Društvo biofizikov Slovenije
in
Laboratorij za Biofiziko
Vas vabita na

biofizikalni seminar:

---

dr. Matej Kanduc

Jožef Stefan Institute, Department of Theoretical Physics (F1)

Stimuli-responsive nanoreactors: theoretical concepts and modeling

A wide range of modern soft functional materials are based on stimuli-responsive polymers, which are crucial components in numerous applications, ranging from drug delivery systems and adaptive biosensors to active nanoreactors.

The goal is the ability to use an external stimulus to control the uptake of particular molecules and their permeability through the polymeric shell. In this talk, I will discuss the basic theoretical concepts of these systems spanning from the continuum description down to meso- and nano-scale.

The most emphasis will be put on the molecular-level understanding, which is at present the most poorly understood. Here, molecular simulations help us to gain important insights into thermodynamic and transport properties of small molecules in the polymeric shell. The gathered knowledge finally allows us to construct a simple theory that describes the behavior on the molecular level reasonably well.

četrtek, 24. 10. 2019, ob 13.15

Seminarska soba fizike na Institutu »Jožef Stefan«
(pritličje glavne stavbe, soba 106), Jamova 39, Ljubljana

Vljudno vabljeni!

Dodatne informacije: ana.kriselj@ijs.si

Društvo biofizikov Slovenije
Jamova 39, Ljubljana
http://www.drustvo-biofizikov.si/

Laboratorij za biofiziko, F5, IJS
Jamova 39, Ljubljana
http://lbf.ijs.si/