



# "Soft-Matter Seminar"

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## **Osmotic loading of simple viruses**

### Abstract

I will present a nematic nanodrop model of the genome packing in a spherical capsid and derive the equilibrium equation for the osmotic pressure of the capsid in equilibrium with an external PEG solution. I will derive the osmotic loading curves, i.e. the dependence of the packing fraction on the external osmotic pressure, directly from the measured equation of state data for DNA in the bulk. I will discuss specifically the ionic concentration and ionic type effects.

**15.12.2006  
16:30 Uhr  
Raum PH 3344**

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