

Physics seminar

Monday, 1st March 2010 at 15h00

Campus Kirchberg

Salle des Conseils

Tanja Schilling, Professor

"Playing With Marbles"

We first give an introduction into colloid physics and discuss the packing properties of hard ellipsoids. Then we present an algorithm, by which absolute free energies of disordered systems can be computed. The strategy is based on thermodynamic integration. We show how to construct suitable reference systems to evaluate free energies of e.g. liquid crystals, membranes and dense liquids.