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**Interactions mediated by charged nanoparticles****Klemen Bohinc**

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**I**nteractions between charged objects in electrolyte solutions are of fundamental importance in many technological and medical systems. These interactions can be altered by the presence of charged nanoparticles, which possess spatially distributed internal charge. In this presentation, I will consider the influence of charged nanoparticles on the interaction between charged surfaces from theoretical and experimental point of view.

**Biography**

Klemen Bohinc graduated in the field of Physics at the Faculty of Natural Sciences, University of Ljubljana. In 2001 he received his Ph.D. in Electrical Engineering from the Faculty of Electrical Engineering, University of Ljubljana and in 2012 Ph.D. in Physics from the Faculty of Natural sciences and Mathematics, University of Maribor. Currently he teaches Biomechanics and Biophysics at the Faculty of Health Sciences, University of Ljubljana. His research interests are electrostatics and statistical physics of biological macromolecules/membranes, characterization of nanoparticles as well as microbial adhesion to material surfaces.

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