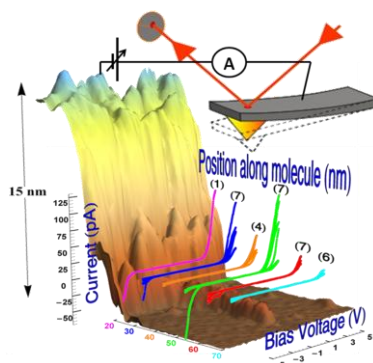


“Charge Transport in single DNA-Based Molecules”

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DNA has been in the center of the scientific research for decades. In particular, DNA was considered as one of the attractive candidates for molecular electronics and an excellent system to study charge transport in 1-D polymers. In spite of intensive efforts the results varied between experiments due to changes in the measured molecules, measurement methods and environment. Recently we were able to measure length dependent electrical transport in G4-DNA attached to a hard surface in a controlled way and get an insight to the mechanism governing the charge transport in these molecules. I will report on these results and on our measurement efforts with additional methods.

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