

# **Seminář odd. 26**

## **Tenkých vrstev a nanostruktur**

*Fyzikální ústav AVČR, Cukrovarnická 10, Praha 6*

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### TÉMA

**How much control over single molecules could one get with the junction of a scanning probe microscope?**

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Scanning probe microscopy (SPM) has become a versatile tool for making experiments with single molecules. The power of the SPM comes from the combination of the atomic-scale imaging, spectroscopy and manipulation. The single-molecule manipulation is in fact becoming a routine part of many SPM studies. In such circumstances it is interesting to discuss how far could we get in trying to control a single molecule placed in the junction of a scanning probe microscope? What are the factors that could facilitate such control? What are the interesting possibilities that open in the case the high level of control is reached?

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