



## Workshop:

# Novel approaches to DNA plasmids analysis

**9.30AM, 23 November 2105**  
**Department of Physics Seminar Room**  
**University of Trento, Povo, TN, Italy**

The workshop discusses two novel approaches to the analysis of the plasmids structures based on atomic force microscopy and diffusion across nanoporous membranes.

## Participants:

- Prof. **Michael Rabbat** (invited), McGill University  
*"Extracting DNA plasmid structure in AFM images"*
- Prof. **Cristian Micheletti** (invited), SISSA  
*"Metric and dynamical properties of knotted chains in narrow slits, channels and pores: a computational perspective"*
- Dr. **Valeria Visone**, CNR-IBBR  
*"Insight into DNA Topology: DNA manipulating enzymes and proteins"*
- Dr. **Simone Melchionna**, CNR-ISC  
*"From fine grained to coarsened grained models for DNA plasmids"*
- Dr. **Paolo Bettotti**, DF, UNITN  
*"NEMATIC: Nanoporous materials: self-assembled blackboard to study"*