



Dipartimento
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Galileo Galilei



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

COLLOQUIUM DI FISICA

Mercoledì 11 Marzo 2015, ore 15.00
aula "A. Rostagni"

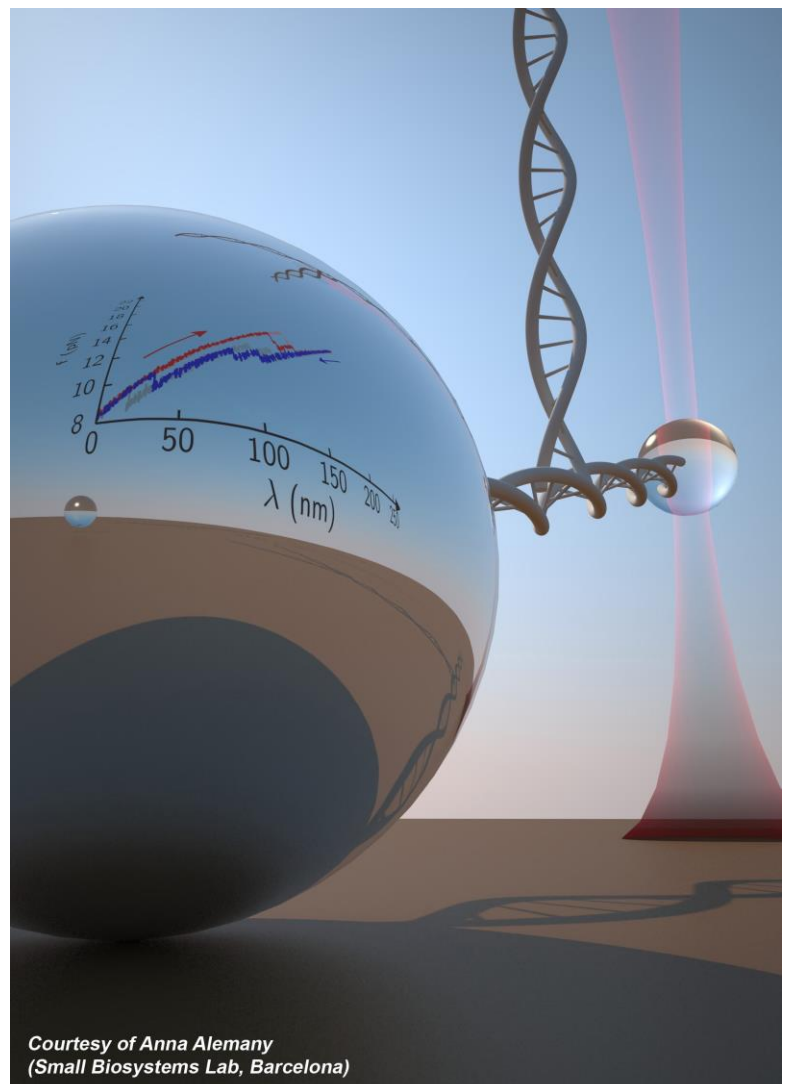
Prof. Felix Ritort

Facultat de Física, Universitat de Barcelona

Manipulating molecules one at a time: a new frontier of research in science

ABSTRACT :

In this talk I will explain how scientists can nowadays control, manipulate and apply tiny forces (piconewtons) on single biomolecules. I will then overview a few selected applications of these experiments that allows us to follow in real time how biological molecules fold into their functional native structure and how we can apply simple physical concepts to extract the free energy of formation of these biological structures.



Courtesy of Anna Alemany
(Small Biosystems Lab, Barcelona)