

**« Organization of DNA, chromatin and chromosomes » – John Marko,**  
Department of Physics and Astronomy, Northwestern University, Evanston,  
Illinois, USA

Dates : 7, 9, 12, 14 September 2016,

Place : Université Pierre et Marie Curie – Paris

*Amphi Astier, bâtiment Esclangon (7 September)*

+ *salle 107, couloir 22/23 (UFR de physique) (9, 12, 14 September)*

Professor Marko works on the application of statistical mechanics and polymer physics to biophysical problems, and in particular to micromechanical studies of DNA, DNA-protein interactions, and chromosome structure. This course on « Organization of DNA, chromatin and chromosomes. » will be an introductory course on the application to DNA and chromosome physics, and will be organised in four sessions (an hour presentation and then half an hour of discussion for each session) :

**1. Organization of DNA, chromatin and chromosomes : an introductory course** (conference for a large auditory)

– 07/09, 10:45-12:15 – *Amphi Astier*

**2. DNA mechanics and DNA-protein binding/unbinding**

– 09/09, 10:45-12 :15 - *salle 107, couloir 22/23*

**3. Chromatin from nucleosomes to loop domains**

– 12/09, 10:45-12:15 - *salle 107, couloir 22/23*

**4. Chromosome organization - control of geometry and topology**

– 14/09, 10:45-12:15 - *salle 107, couloir 22/23*