



Invité par l'Assemblée du Collège de France,
sur proposition du Pr. Jean-François JOANNY.

Alexander GROSBERG

PROFESSEUR DE PHYSIQUE ET DE MATHÉMATIQUES,
UNIVERSITÉ DE NEW YORK

23 avril > 14 mai 2024

Polymer physics in cell nucleus

Conférences en anglais – Salle 5, de 14h30 à 15h30

Series of 4 lectures about polymer physics and cell nucleus.
A more provocative, although entirely justified, title would be
«Introduction to Nuclear Physics».

This plan is designed as an attempt to cover what seems to
me at present reasonably well established foundations of
the very dynamic and rapidly evolving field. Although the
field is very far from complete, some basic ideas seem to
be crystallizing, which is why discussing them in a relatively
systematic way may be appropriate.

Mardi 23 avril 2024

Phenomenology:

chromatin is a functional form of DNA in the cell.

Mardi 30 avril 2024

Equilibrium polymer models

Mardi 7 mai 2024

Activity driven folding and segregation

Mardi 14 mai 2024

Chromatin hydrodynamics