EPFL PHYSICS COLLOQUIUM

Super-resolution imaging of transcription in living cells

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APERO after the colloquium

Monday
May 13
16:15
Room CE1 2

or on zoom :
https://epfl.zoom.us/j/64905394203

We develop highly sensitive methods of microscopy, to go directly inside living cells and uncover the behavior of single biomolecules as they effect their function in transcription.

Transcription is the first step in gene expression regulation, during which genetic information on DNA is decoded into RNA transcripts. The live cell single molecule and super-resolution techniques are revealing novel emergent phenomena inside the living cells. We will discuss our recent discoveries on highly dynamic biomolecular clustering, and phase transitions in vivo. These discoveries are challenging the 'textbook view' on how our genome is decoded in living cells.

School of Basic Sciences

Organized by the Institute of Physics, EPFL

Host: Prof. Sahand Rahi