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INM COLLOQUIUM

"LOOKING AT PROTEINS IN LIVE CELLS WITH ATOMIC RESOLUTION: FROM SCIENCE FICTION TO SCIENCE REALITY"

Prof. Dr. Phil Selenko

Weizmann Institute of Science, Rehovot, ISR

Tuesday, April 30, 2019, **2:15 pm**

INM, Leibniz-Saal, Campus D2 5

Host: Prof. Dr. Niels de Jonge

Recent breakthroughs in optical and electron microscopy have changed the fields of Cellular and Structural Biology in a most profound manner. Ever more detailed information about the inner workings of cells is becoming available, revealing stunning new insights into molecular landscapes and their biological activities, at unprecedented levels of resolution. Besides these advancements in imaging modalities, complementary *in situ* methods are beginning to emerge as powerful tools in modern Cellular Structural Biology approaches. Here, I discuss how recent developments in in-cell NMR, EPR and single-molecule FRET spectroscopy contribute to our understanding of basic biological processes in live cells. Specifically, I outline how these techniques provide time-resolved atomic-resolution information about intracellular protein structures and functions, which cannot be obtained with any other method at this time.

You are invited to have coffee with the speaker 15 minutes before the talk starts.

KONTAKT

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