



Münchner Physik- Kolloquium

at home!
Sommer
2021

Dieses Semester findet das Kolloquium online statt: <https://tum-conf.zoom.us/j/93234766313>

Protein dynamics across timescales

Dr. Sonja Schmid, *Wageningen University, The Netherlands*

Monday, 17 May 2021, 17:15 h

<https://tum-conf.zoom.us/j/93234766313> Meeting-ID: 932 3476 6313 Password: Kolloquium
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Proteins are the molecular makers in our body. Researchers successfully identified a vast proteome, a dense web of metabolic interactions, and thousands of static 3D structures. But the essential molecular dynamics causing protein function are still challenging to detect – yet they are our key to understanding the energetics of protein systems.

I will present our results from optical and electrical single-molecule experiments. FRET allows us to watch single proteins at work in real time. And with the NEOtrap, we developed a new label-free technique to monitor single native proteins electrically, using nanopores. Our goal is to push beyond current detection limits to learn how protein function arises at the nanoscale.

