



**2<sup>nd</sup> February 2017 - 10:00 h**  
CFEL – Building 99, seminar room I+II (ground floor)

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**Towards a predictive atomistic theory of dynamical processes in nanostructures**

While the ab-initio treatment of the static properties of matter have reached a level at which accurate predictions can be often made, the calculation of dynamical properties of matter remain challenging. This is especially true in the realm of nanostructures, as these are made of many, often more than 10.000 atoms. I will cover different aspects of “dynamics” and describe available theoretical approaches.