



TECHNISCHE  
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# IAP-SEMINAR

## EINLADUNG

Termin: **Freitag, 31.1.2014 um 14:00 Uhr**  
Ort: **Technische Universität Wien,  
Institut für Angewandte Physik,  
Seminarraum 134A, Turm B (gelbe Leitfarbe), 5. OG  
1040 Wien, Wiedner Hauptstraße 8-10**

Vortragender: **Siegfried Höfinger**  
Universität Bologna/Italien

Thema: **Recent Examples of Computational Biophysics and its  
General Role in the Age of Supercomputers and HPC**

### Kurzfassung

Computer simulations have become a viable tool in contemporary science providing insight into molecular scale detail that otherwise was difficult to gain from purely experimental methods. Particularly interesting are studies of complicated domains, such as for example interfaces, meta-stable condensed phases, crowded environments, steady state compartments, and many more where experimental characterization is hindered by fundamental methodic limitations. In this seminar we want to discuss several recent computational studies that could either help to characterize novel mechanisms or bring into focus atomistic details of processes of general biophysical/biochemical significance. Computational aspects will be highlighted, underlying theoretical concepts outlined, challenging physical questions emphasized and open problems brought up for discussion.

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*Alle interessierten Kolleginnen und Kollegen sind zu diesem Seminar  
(45 min mit anschließender gemeinsamer Diskussion) herzlich eingeladen.*

*H. Störi e.h.  
(LVA-Leiter)*