



Der Vorsitzende des Promotionsausschusses

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## EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

**Frau M.Sc. Johanna-Barbara Linse**

Theoretische Biophysik  
(Prof. Dr. Jochen Hub)

am

**Donnerstag, 28. Mai 2026, 16:15 Uhr s.t.**

per Videokonferenz: Link für MS Teams: <https://msteams.link/29T4>


Raum für die Prüfung: Seminarraum E.04, Gebäude E2.6

### **Thema der Dissertation:**

#### **Protein Hydration Shells Studied by Molecular Dynamics Simulations and Small-Angle Scattering: Structural, Thermal, and Surface Effects**

Hydration shells surrounding proteins are crucial for biological functions because they influence the structure, dynamics and interactions of proteins. To understand these hydration shells, we combined molecular dynamics (MD) simulations with models of light and heavy water and small angle X-ray and neutron scattering (SAXS/SANS) experiments. Our findings emphasize the structural specificity of hydration shells and their detectability through SAXS/SANS and MD simulations.

Saarbrücken, 13. Mai 2026



Prof. Dr.-Ing. Georg Frey