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## Bachelor, Master, or PhD thesis

### *Thesis title*

The role of the electric double layer in electrolyte stability

### *Thesis description*

This project aims at probing experimentally the arrangement of solvent molecules and salt ions near electrodes within the electric double layer and correlating this insight with electrolyte stability. For this purpose, precision electrochemical measurements are combined with a variety of X-ray techniques such as surface scattering and small angle scattering. Baseline aqueous and non-aqueous electrolytes are of interest.

The project may involve travel to international user facilities such as DESY (Hamburg), SSRL (Stanford), APS (Chicago), and ESRF (Grenoble).

*For more information please contact Prof. Dr. Hans-Georg Steinrück.*

