

Fakultät für Chemie und
Chemische Biologie

**Kolloquium
der
Physikalischen Chemie**

Thema:

Biological systems under
high hydrostatic pressure
investigated by neutron scattering
techniques

Vortragende:

Prof. Dr. Judith Peters
Universität Grenoble Alpes

Ort:

Seminarraum PC
CP-E0-139

Zeit:

**Freitag, 14.12.2018
14.00 Uhr**

Inhaltsangabe:

High pressure is an as important thermodynamical variable as temperature to characterise biological systems, but due to technological difficulties it is still much underused. We developed over the last years a new high-pressure equipment permitting investigations by neutron scattering techniques as spectroscopy and diffraction on samples in solution. The equipment and the techniques will be introduced and a series of recent measurements at the Institut Laue Langevin and other neutron centres will be presented. For instance, the dynamical transition probed on myoglobin as function of p and T will be discussed and high-pressure effects on enzymes and proteins in the presence of co-solutes will be shown.

Die Dozenten der
Physikalischen Chemie

im Auftrag
Prof. Dr. Roland Winter