



European XFEL Science Seminar

Tuesday, 13th November 2018, 13:00 (*Light refreshments at 12:30*)
Campus Schenefeld, XHQ, room E1.173

Gerhard Grübel

Deutsches Elektronen-Synchrotron (DESY)
and
The Hamburg Centre for Ultrafast Imaging (CUI)

Water in coherent light

Water is undoubtedly the most important liquid on earth and plays an important role throughout various scientific disciplines ranging from physics and chemistry to biology and geoscience. It is well known that water shows many anomalous properties, such as density maxima and diverging thermodynamic properties under supercooled conditions. Despite its importance, most of those anomalies are not understood. It is believed that their origin lies in the complex hydrogen bond network of water.

We will show how coherent X-rays from modern accelerator based light sources can contribute to a deeper understanding of the structure and dynamics of water.

Host: Robert Carley