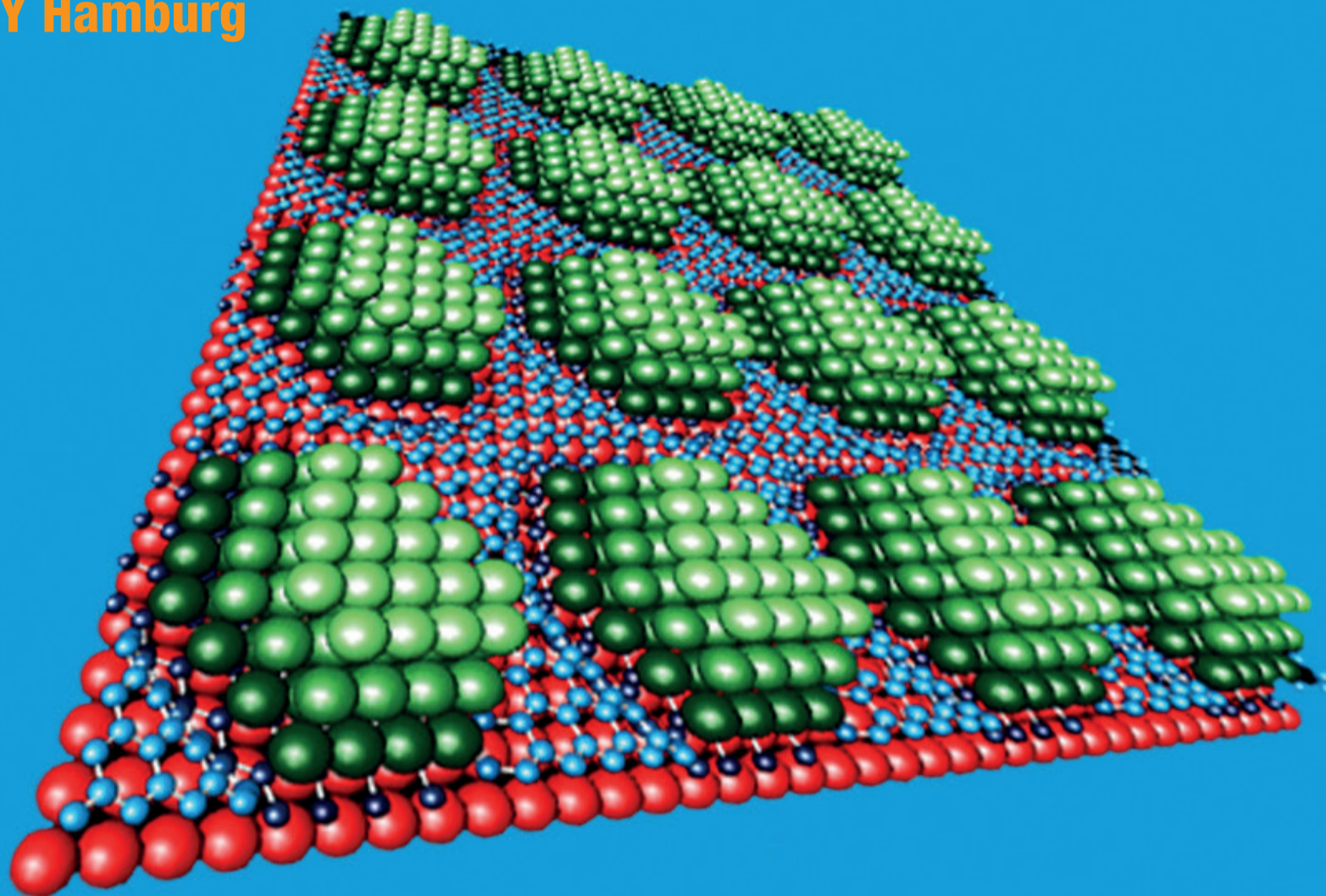


Nanoscience at modern X-ray Sources.

XVI. Research Course on X-Ray Sciences
1-3 March 2017, DESY Hamburg



- > **Quantum dots and nanomembranes**
- > **Surfaces and Interfaces**
- > **Bragg ptychography**
- > **Nanoelectronics and nanomechanics**
- > **Light sources for nanomaterial studies**
- > **Structure and function**

In recent years nanomaterials have become omnipresent in modern everyday life. Nanomaterials play an important role in various fields, ranging from catalysis, micro- and opto-electronics to cosmetics and medical applications. In order to understand structure and function on the nanoscale, scattering and spectroscopy techniques are widely used. Especially with the advent of X-ray Free-Electron Laser sources and the last generation of storage rings generating highly-brilliant X-ray beams, new experiments will extend our knowledge of these materials.

The 16th DESY Research Course will provide an introduction to the recent developments in the field of Nanoscience. Special attention will be paid on modern experimental techniques and scientific applications, with a particular focus on progress of X-ray scattering and spectroscopy. The course addresses master and PhD students, young research fellows, as well as interested scientists.

Registration is free of charge and the number of participants is limited. Applications for this course should be made not later than 24 February 2017.

Speakers:

R. Blick (U Hamburg), W Hansen (U Hamburg), S. Hruszkewycz (ANL Chicago), U. Landman (Gatech, Atlanta), H.F. Poulsen (DTU, Lyngby), O. Schmidt (IFW Dresden), T. Schroeder (IHP, Frankfurt/Oder), A. Stierle (DESY), H. Weller (U Hamburg)

Organizing Committee:

G. Grübel (DESY), F. Lehmkuhler (DESY), M. Kreuzeder (DESY)

Contact: research-course-org@desy.de



<http://researchcourse2017.desy.de>

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