



## IMPRS Interdisciplinary Symposium 2009 “New Frontiers in Science”

Interdisciplinarity promotes the overlap of professionals with largely different languages, backgrounds, training, and expertise to solve problems whose solution lies outside a single discipline. To ensure productive and stimulating interactions across disciplines it is essential that people meet, interact and learn the language and school of thinking of the “other” discipline.

The International Max Planck Research Schools (IMPRS) in Munich are organizing a two-day interdisciplinary symposium. The first day focuses on the relation between “Art and Science”. The second day aims to present the state-of-the-art research in physics, chemistry, biotechnology and medicine, as well as the responsibility of scientists towards society and environment for a sustainable future.

### Words of welcome

Rüdiger Willems, *Vice-Secretary General of the Max Planck Society*

**“Quantum, cosmos, light, life, memory history and sustainability”**

Dr. Helmut Rechenberg, *Emeritus Member at the Max Planck Institute of Physics*

**“Entgrenzung – Transcending boundaries across scientific disciplines”**

Dr. Ákos Dobay – *Studio Arkhai* [<http://www.studioarkhai.com>]

**“Erwin Schrödinger’s version of *Philosophia perennis*”**

Dr. Jochen Büchel

**„Beziehung Mensch Kosmos“ [German]**

Artist Leonard Lorenz [<http://leonard-lorenz.com/>]

### Coffee break

**“ASIA projects for Tibetan nomad children”**

Dr. MD. Wolfgang Schweiger –NGO Asia [<http://www.asia-ngo.de/>]

**“Passions beyond science: Tibetan painting art and pigment analysis by Raman spectroscopy”**

Nobel Laureate Richard Ernst – *Physical Chemistry, ETH Zurich*

**Visit to exhibition „Tanz in Morphoraum“ by Prof. Harald Fuchs**

Dr. Sabine Adler – ERES Stiftung [<http://www.eres-stiftung.de/>] in cooperation with NGO EH Euro-House gGmbH [<http://www.ehims.de/>]

### Dinner

\*Program subject to changes

**Thursday 15<sup>th</sup> October 2009, 2 pm, Max-Planck-Gesellschaft, Munich**

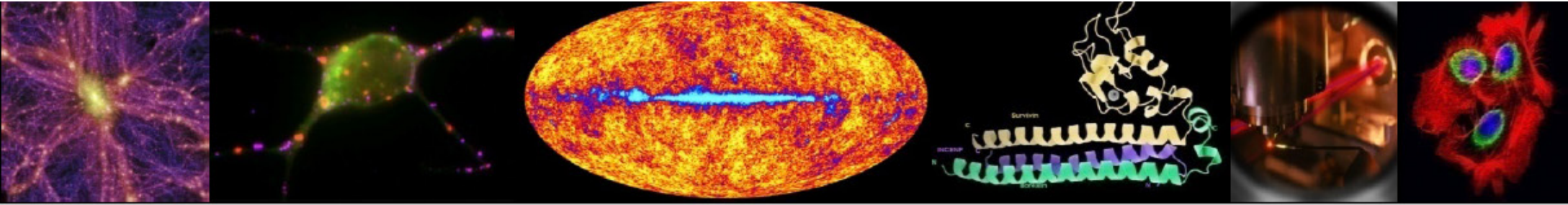
Organized by International Max Planck Research School (IMPRS) of Molecular and Cellular Life Sciences, IMPRS of Advanced Photon Science; and Graduate Program “Protein Dynamics in Health and Disease”, Elite Network of Bavaria.

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### "Echoes of creation: the origin of structure in our universe"

Prof. Simon White – *Director at MPI for Astrophysics, Garching*

### "Molecular Darwinism: strategies of genetic variation"

Nobel Laureate Werner Arber – *Molecular Microbiology, University of Basel*

### "Quantum information"

Prof. Gerd Leuchs – *Director at MPI for the Science of Light, Erlangen*

### Lunch break

### "Science as a profession"

Prof. Georg Kreutzberg – *Emeritus Scientific Director at MPI of Neurobiology, Martinsried*

### "Beauty and fitness for purpose with the building blocks of life, the architecture of proteins"

Nobel Laureate Robert Huber – *Emeritus Scientific Director at MPI of Biochemistry, Martinsried*

### "Energy generation from nuclear fusion"

Prof. Sibylle Günter – *Director at MPI of Plasma Physics, Garching*

### Coffee break

### Film show: "The power of the sun"

Executively produced by Nobel Laureate Walter Kohn – *University of California Santa Barbara*

### "Academic responsibility and our future"

Nobel Laureate Richard Ernst – *Physical Chemistry, ETH Zurich*

### Panel discussion: "Sustainable energy supply for the future"

Prof. Sibylle Günter – *Director at MPI of Plasma Physics, Garching*

Prof. Werner Arber – *Molecular Microbiology, University of Basel*

Prof. Richard Ernst – *Physical Chemistry, ETH Zurich*

Prof. Dieter Jahn – *BASF – The Chemical Company*

Prof. Franz von Feilitzsch – *Technical University Munich*

Prof. Wolfgang Heckl – *General Director of "Deutsches Museum"*

*Moderator: Prof. Karl-Heinz Maurer, Director of Biotechnology, Henkel*

\*Program subject to changes

**Friday, 16<sup>th</sup> October 2009, 10 am, MPI of Biochemistry, Martinsried**

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