



BIOLOGICAL FRONTIERS OF PHYSICS:

FROM NEW TOOLS FOR BIO-IMAGING TO QUANTUM BIOLOGY

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TIME:

Initial meeting (Vorbereitung),
March 5th 2012, 15:00, Lecture hall
(Christian Doppler) 3rd floor,
Faculty of Physics,
Boltzmanngasse 5, 1090 Wien,

TYPE:

Blocked (Blockveranstaltung),

LANGUAGE:

English

DESCRIPTION:

Historically physics has played a major role in the advancements of life sciences. On one hand technological advancement has always been a main driver for biological discoveries. On the other hand a physics approach to biological questions can lead to the discovery of principles underlying the organization of living matter. In the recent few years a number of examples for both modalities of interaction between physics and biology have emerged. These include a class of bio-imaging techniques which provide an unprecedented temporal and spatial resolution and the emergence of the new field of quantum biology, where non-trivial quantum effects such as quantum coherence are thought to be generated through dynamic interactions with relevance for biological function.

