

# PREDAVANJE

12/2/2016

11:00 h

Institut Ruđer Bošković  
dvorana III. krila

## Seeing is believing Voir est saVoir

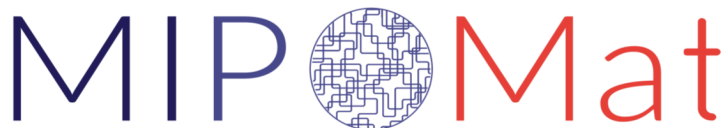
Prof. Dr. Theo Lasser  
Ecole Polytechnique Fédérale de  
Lausanne

This talk is an invitation for a promenade into tissue structure and function and cell and subcellular organelles. Relying on coherent imaging techniques we will try to see “diabetes”, to look into the brain for Alzheimer disease and we will finish our walk with novel insights on the cellular level based on SOFI, providing 3D and even 4D superresolved images of living cells. We will try to present the underlying optical concepts, and conclude with an outlook for imaging with applications in medicine and lifesciences.

Prof. Dr. Theo Lasser is a full professor at the Ecole Polytechnique Fédérale de Lausanne and leads the Laboratoire d'Optique Biomédicale (LOB).

His research focuses on functional imaging, the development of coherent imaging methods and its application in medicine and life sciences. Low coherence microscopy (OCM) and high speed Laser Doppler Imaging (LDI) with applications in diabetes, neuroscience and infectious diseases represent well current research interests. Fluorescence microscopy and spectroscopy and in particular superresolution imaging (SOFI) applied to cell imaging complement this research.

### ORGANIZATORI



Mreže za profesionalno usavršavanje mladih znanstvenika u interdisciplinarnim istraživanjima inovativnih površina i materijala



Hrvatsko mikroskopijsko društvo



Ulaganje u budućnost  
Europska unija

Projekt je sufinancirala Europska  
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