

**FAKULTÄT für PHYSIK  
LUDWIG-MAXIMILIANS-UNIVERSITÄT  
MÜNCHEN/GARCHING**

**PHYSIK-DEPARTMENT  
TECHNISCHE UNIVERSITÄT MÜNCHEN  
MÜNCHEN/GARCHING**

## **Garching Maier-Leibnitz-Kolloquium**

**Donnerstag, 31.10.2024, 16<sup>15</sup> Uhr**

Hörsaal der LMU in Garching, Am Coulombwall 1  
Treffen zum gemeinsamen Kaffee 16 Uhr

**Prof. Ronald Sroka**

**(Laser-Forschungslabor, LIFE Center, University Hospital, LMU Munich)**

### **Lasers and Biophotonics for Medical Application**

Light-based technologies are established as part of the toolbox for clinicians in their daily routine. Latest developments are on the transition to clinical application. Starting from basic information on the interaction of light with tissue, current technical developments and their challenges are presented. Using clinical examples, the challenges for the translation and establishment of these technologies in clinical applications will also be discussed. This way biophotonic application in laboratory-medicine (e.g. iron deficiency, porphyria detection), light support in-vivo diagnostic (e.g. diffuse remission spectroscopy, fluorescence, ...) and laser treatments (photodynamic therapy, varicose vein, stone disease, ...) will be presented.

*Hybrid online access via ZOOM:*

<https://lmu-munich.zoom.us/j/98457332925?pwd=TWc3V1JkSHpyOTBPQVIMelhuNnZ1dz09>

Meeting ID: 984 5733 2925

Passcode: 979953

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