

# Laser microscopy - quantum and classical

Thursday, August 28<sup>th</sup>, 2025  
SASA, 1<sup>st</sup> floor, hall 3

## Workshop timetable

- 14:30 - 14:50** **Branislav Jelenković** - Institute of Physics Belgrade, Serbia  
Opening - Perspectives of quantum microscopy
- 14:50 - 15:10** **Ana Jakovljević** - Faculty of Biology, University of Belgrade, Serbia  
“Holographic and Nonlinear Microscopy of Astrocyte Cultures and Rat Spinal”
- 15:10 - 15:30** **Francesca Torrini** - LENS, CNR, Florence, Italy  
“Droplet-based Microfluidics as Liquid Compartments for Bioassembly: A Glimpse into Biomedical Applications”
- 15:30 - 15:50** **Pavle Andjus** - Faculty of Biology, University of Belgrade, Serbia  
“Design of a portable Lab-on-a-chip in vitro diagnostic device based on a mobile phone camera for capturing fluorescence signalling”
- 15:50 - 16:10** **Discussion break**
- 16:10 - 16:30** **Josué Ricardo León Torres** - Friedrich Schiller University Jena, Germany  
“Scanning quantum imaging”
- 16:30 - 16:50** **Filip Krajinić** - Institute of Physics Belgrade, Serbia  
“Characterization of the tunable mid infrared photon pair source realized in the nonlinear AgGaS<sub>2</sub> medium”
- 16:50 - 17:10** **Zoran Ševarac** - Faculty of Organizational Sciences, University of Belgrade, Serbia  
“Accelerating physics research using machine learning”
- 17:10 -** **Discussion**