

**FAIR CHARM WORKSHOP ON**  
**NONLINEAR MICROSCOPY: INSTRUMENTS AND APPLICATIONS**  
Wednesday February 4<sup>th</sup>, 2026 - Section of Physics, University of Geneva  
(Location → <https://www.unige.ch/sciences/physique/en/information>)

|                 |                                  |       |       |   |
|-----------------|----------------------------------|-------|-------|---|
| Two-Photon      | Luigi Bonacina                   | 09.00 | 09.05 | Welcome & Intro to the Workshop   |
|                 | Ronan Cherau                     | 09.05 | 09.30 | <i>Two-photon calcium imaging for studying cortical function in rodents.</i>  |
|                 | Sara Gallini                     | 09.30 | 09.55 | <i>Uncovering tumor suppression mechanisms through in vivo two-photon imaging</i>   |
|                 | Dimokratis Karamanlis            | 09.55 | 10.20 | <i>LightSuite: a high-throughput pipeline for cellular-resolution analysis of large-scale 3D microscopy datasets</i>  |
|                 |                                  | 10.20 | 10.45 | Coffee Break  |
|                 | Quanyu Zhou                      | 10.45 | 11.00 | <i>Needle beam two-photon microscopy for simultaneous multiplane neural and vascular imaging</i>  |
|                 | Jin Tian                         | 11.00 | 11.15 | <i>Coordinated two-photon fluorescence and optoacoustic microscopy of neural, vascular, and cellular dynamics in the mouse brain</i>  |
|                 | Chiara Stringari                 | 11.15 | 11.45 | <i>Polarization resolved label-free non-linear microscopy</i>   |
| Three-Photon    | Raluca Niesner                   | 11.45 | 12.15 | <i>Optimizing three-photon microscopy and third harmonics generation for dynamic intravital deep marrow imaging of long bones</i>   |
|                 |                                  | 12.15 | 13.30 | Lunch Break   |
|                 | Lukas Kontenis                   | 13.30 | 13.45 | <i>CRONUS 3P for Advanced Nonlinear Microscopy</i>  |
|                 | Alexandra Latshaw                | 13.45 | 14.00 | <i>Geneva SWIM: Short Wave Infrared Microscope</i>  |
|                 | Margaux Bouzin                   | 14.00 | 14.15 | <i>Thermal and Nonlinear Damage in Three-Photon Excitation Microscopy</i>   |
|                 | Fernanda Ramos Gomes             | 14.15 | 14.30 | <i>Optical clearing enables deep tissue label-free 3-photon microscopy of colon cancer at single cell resolution</i>  |
|                 | Lukas Krainer                    | 14.30 | 14.45 | <i>3 Photon applications at Prospective Instruments</i>   |
|                 |                                  | 14.45 | 15.10 | Coffee Break  |
| Alt. Approaches | Rafael Kurtz                     | 15.10 | 15.35 | <i>Light sheet microscopy and 3D-2D multiplexed workflows for comprehensive whole-organ analysis</i>  |
|                 | Bojan Resan                      | 15.35 | 15.50 | <i>High resolution deep OCT imaging with femtosecond blue diode pumped Ti:Sa laser and axicon lens</i>  |
|                 | Milvia Alata & Jonas Jurkevicius | 15.50 | 16.20 | <i>Novel tools for visualizing enteric nervous system activity:</i> <ul style="list-style-type: none"> <li>○ <i>Third harmonic generation microscopy for the study of mucus related interfaces in the gastrointestinal tract</i></li> <li>○ <i>4D-SLIDE: Fast Volumetric 2PM for living tissue</i></li> </ul> |
|                 |                                  | 16.20 | 18.30 | Lab Visit Networking & Posters  |
|                 |                                  |       |       |   |

The event is free. Email registration is required, please contact: [luigi.bonacina@unige.ch](mailto:luigi.bonacina@unige.ch)