

FAIR CHARM WORKSHOP ON NONLINEAR MICROSCOPY: INSTRUMENTS AND APPLICATIONS

Wednesday February 4th, 2026 - Section of Physics, University of Geneva
(Location → <https://www.unige.ch/sciences/physique/en/information>)

Two-Photon

Three-Photon

Alt. Approaches

Speaker	Start	End	Topic
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>
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
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	<ul style="list-style-type: none"> Novel tools for visualizing enteric nervous system activity: ○ <i>Third harmonic generation microscopy for the study of mucus related interfaces in the gastrointestinal tract</i> ○ <i>4D-SLIDE: Fast Volumetric 2PM for living tissue</i>
	16.20	18.30	Lab Visit Networking & Posters

The event is free. Email registration is required, please contact: luigi.bonacina@unige.ch