



School on SML & Super-Resolution Microscopy

Department of Physics "E. Fermi"
University of Pisa
Largo B. Pontecorvo 3 Pisa

Organized by The Center for Instrument Sharing of the
University of Pisa (CISUP), Nikon Instr.

Hosted by the Department of Physics "E. Fermi" of the
University of Pisa



School on SML & Super-Resolution Microscopy

Hosted by Department of Physics, University of Pisa
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The Practical School will focus on the basis of single-molecule localization microscopy and the best experimental strategies for image acquisition, analysis and sample preparation.

Organizing committee: Prof. Francesca Cella Zancchi,
Prof. Simone Capaccioli, Dr. Giacomo Cozzi,
Prof. Dario Pisignano, Dr. Gabriele Paoli

NIKON MICROSCOPY SCHOOL

Monday 15th January 2024 - Ed.C Aula 131

h.14.00	Welcome and Openings The Physics Department	Title
h.14.15-14.30	Prof. Simone Capaccioli (CISUP)	"The Center for Instrument Sharing of the University of Pisa"
h.14.30-15.00	Prof. A. Diaspro (University of Genoa)	"The Empire of Light"
h.15.00-15.30	Prof. F. Cella Zancchi (University of Pisa)	"Within the single-molecule realm"
h.15.30-16.00	Coffee Break	
h.16.00-16.30	Marie Victoire Neguembor (Center for Genomic Regulation, CRG)	"3D genome folding in the eye of the STORM"
h.16.30-17.30	Prof. R. Bizzarri (University of Pisa)	"Fluorescence proteins as tunable probes for imaging cells across several spatial scales"
h.17.00-17.30	Dr. Giacomo Cozzi (Nikon Europe BV)	Nikon Super Resolution lineup

Tuesday 16th January 2024

Practical sections	Hours	Group 1	Group 2	Group 3	Group 4	Group 5
Workstation/Platform	10.00 -11.00	P1	P2	P3	P4	P5
	11.00 -12.00	P5	P1	P2	P3	P4
	12.00 -13.00	P4	P5	P1	P2	P3
	14.30 -15.30	P3	P4	P5	P1	P2
	15.30 -16.30	P2	P3	P4	P5	P1

P1: Nikon super-resolution: Stochastic Optical Reconstruction Microscopy (STORM)
P2: Nikon Spatial Array Confocal (NSPARC)
P3: Session on sample preparation and experimental design
P4: Session on data analysis and discussion
P5: Break/Pausa

Wednesday 17th January 2024

	Workstation	
10.00 -16.00	STORM	Open session on specific samples
10.00 -16.00	NSPARC	Open session on specific samples