

Thursday 26th February 2026 @ 11:00am

Ecole Polytechnique @ IPParis

Amphi Becquerel

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Fluorescence-Lifetime Super-Resolution Microscopy

I will present our latest development of **fluorescence-lifetime image scanning microscopy SMLM (FL-iSMLM)**, which doubles the lateral resolution of single-molecules localization microscopy (STORM and PAINT) by integrating a single-photon detector array into a confocal laser scanning microscope, allowing simultaneously for single-molecule fluorescence lifetime measurements. This enables sub-5 nm resolution imaging in fixed cells while simultaneously allowing discrimination of targets based solely on their fluorescence lifetimes.