

HowTo's and Tutorials

Instrumentation

Fluorometer

- [EasyTau](#)
- [Interfacing a time-resolved spectrometer \(FluoTime 300\) with a microscope \(MicroTime 100\)](#)
- [Measuring the Quantum Yield with the Integrating Sphere Assembly for the FluoTime 300](#)

Microscopy

- [Configuring SymPhoTime64](#)
- [FLIM Measurement Using a Nikon A1 with a FLIM and FCS Upgrade](#)
- [FLIM Measurement Using a Zeiss LSM710/LSM780/LSM880 with a FLIM and FCS Upgrade](#)
- [FLIM Measurements Using an Olympus FV3000 with a PicoQuant FLIM Upgrade](#)
- [FLIM-FRET Measurement Using an Olympus FV1200 with a FLIM and FCS Upgrade](#)
- [How to Avoid the Pile-up Effect in FLIM Measurements](#)
- [How to Check the Overlap of Different Color Confocal Volumes](#)
- [How to exchange the main dichroic of the MicroTime 200](#)
- [How to Measure the Instrument Response Function \(IRF\)](#)
- [How to Perform Antibunching Measurements](#)
- [How-to select the correct pinhole size](#)
- [Image on the beam diagnostics camera during focusing](#)
- [MT200 Daily Alignment](#)
- [MT200 FCS Measurement](#)
- [MT200 Fundamental Alignment](#)
- [Performing a FCS measurement with an Olympus FV1200 Upgrade Kit](#)
- [Recording a Fluorescence Lifetime Image \(FLIM\) Stack with a LSM Upgrade Kit on a Nikon A1](#)

Analysis

The SymPhoTime tutorials rely on the sample workspace downloadable [here](#) (1.5GB).

General

- [Antibunching Analysis](#)
- [Determination of the Focal Width](#)
- [How to create a time-gated Image in SymPhoTime](#)
- [How to Work with Instrument Response Functions \(IRFs\) Measured with a Microscope](#)

- Intensity Time Trace Analysis
- Registering New Scripts in the SymPhoTime 64
- Static Anisotropy Analysis for Images
- SymPhoTime 64 Analysis Tips and Tricks
- SymPhoTime Lifetime Fitting

FLIM

- Lifetime Fitting Using the FLIM Analysis
- Lifetime-Fitting Using the FLIM Analysis (updated for SymPhoTime V 2.5 and above)
- Lifetime-Fitting Using the Rapid Reconvolution Model
- Pattern Matching
- Phasor Analysis
- ROI Fitting Using the FLIM Analysis
- ROI Fitting Using the FLIM Analysis (updated for SymPhoTime v2.5)
- Visualizing Dynamics Using the Multi Frame FLIM Analysis
- Visualizing Dynamics Using the Multi Frame FLIM Analysis (updated for SymPhoTime v2.5 and above)

FRET

- Calculate Ratiometric FRET Images
- Calculate Ratiometric Single Pair FRET Distributions
- Calculate Ratiometric Single Pair FRET Distributions Using PIE-FRET
- FLIM-FRET Calculation for Multi Exponential Donors
- FLIM-FRET Calculation for Single Exponential Donors

FCS / Correlation

- Calculate and Fit FCS Traces with the FCS Script
- Calculate FCCS Traces with the Grouped FCS Script
- Calibrate the Confocal Volume for and with FCS
- Separation of 2 Species with Different Lifetimes Using FLCS
- Spectral Crosstalk Removal via FLCCS

Samples

- Diamond NV Centers

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