

HALCYONE Femto

Fluorescence Upconversion Spectrometer

Femtosecond Fluorescence of Flavin Mononucleotide

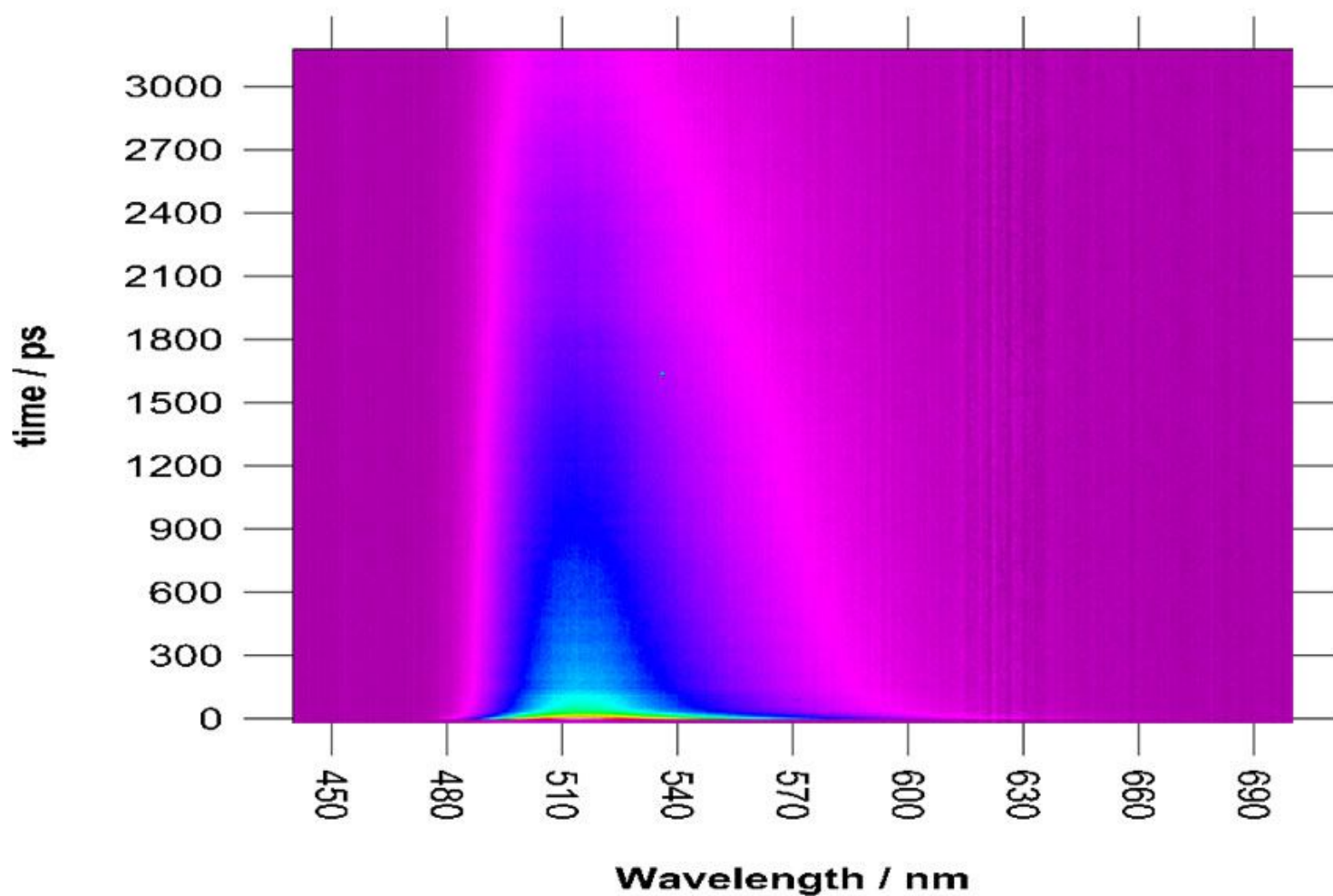
DATA EXAMPLE



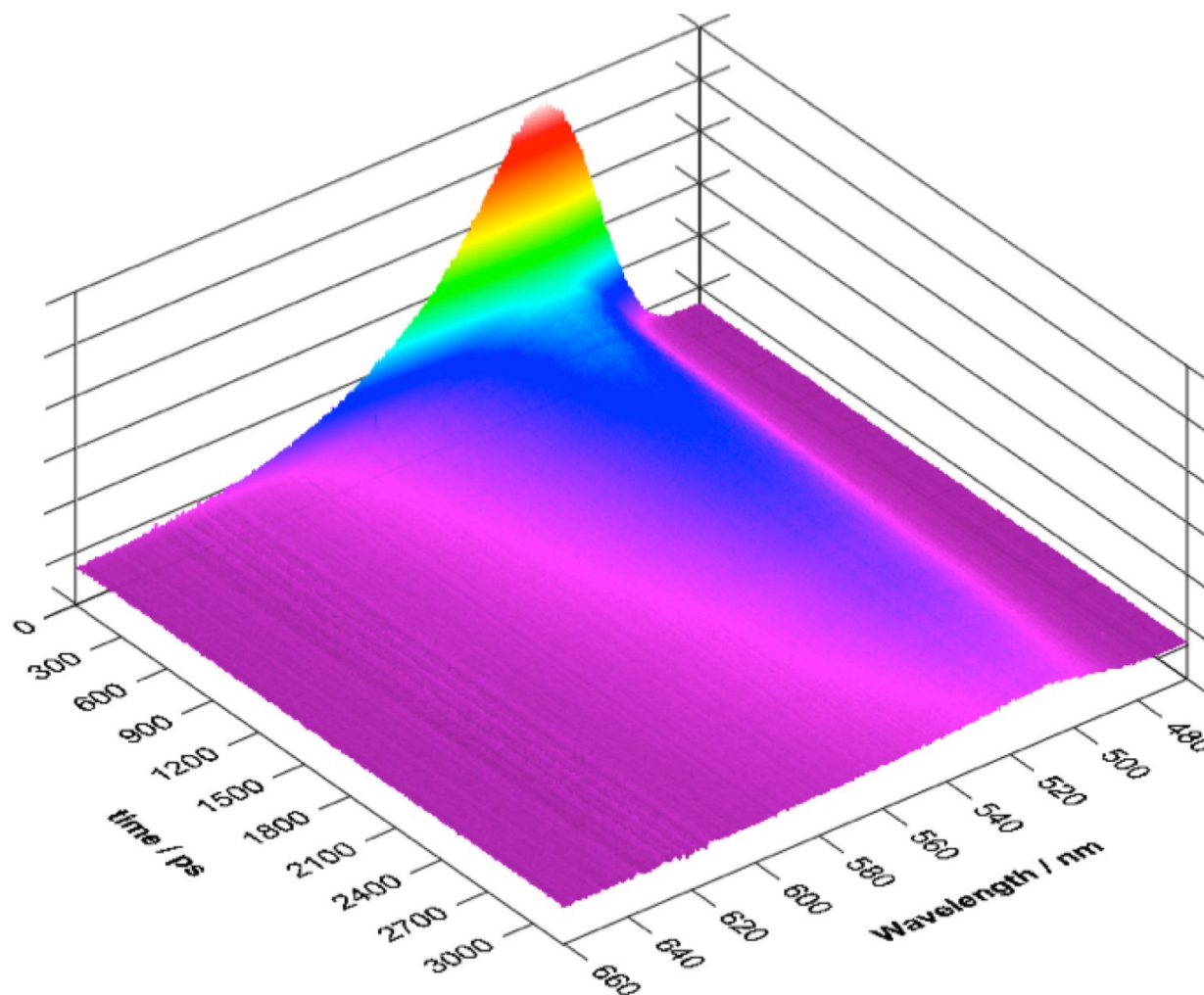
Experiment Details

- Sample: Flavin Mononucleotide (FMN)
- Solvent: Water
- Laser / OPA: Coherent Libra @ 1 kHz / Harmonics Generator
- Pump power: 0.5 mW@400nm
- Gate wavelength: 800nm
- Measurement time: 40 min
- Detector: Thermoelectrically Cooled CCD
- The SFG crystal was automatically rotated during camera integration time to capture the whole fluorescence band of the sample
- Cosmic ray spikes automatically removed using Surface Xplorer.

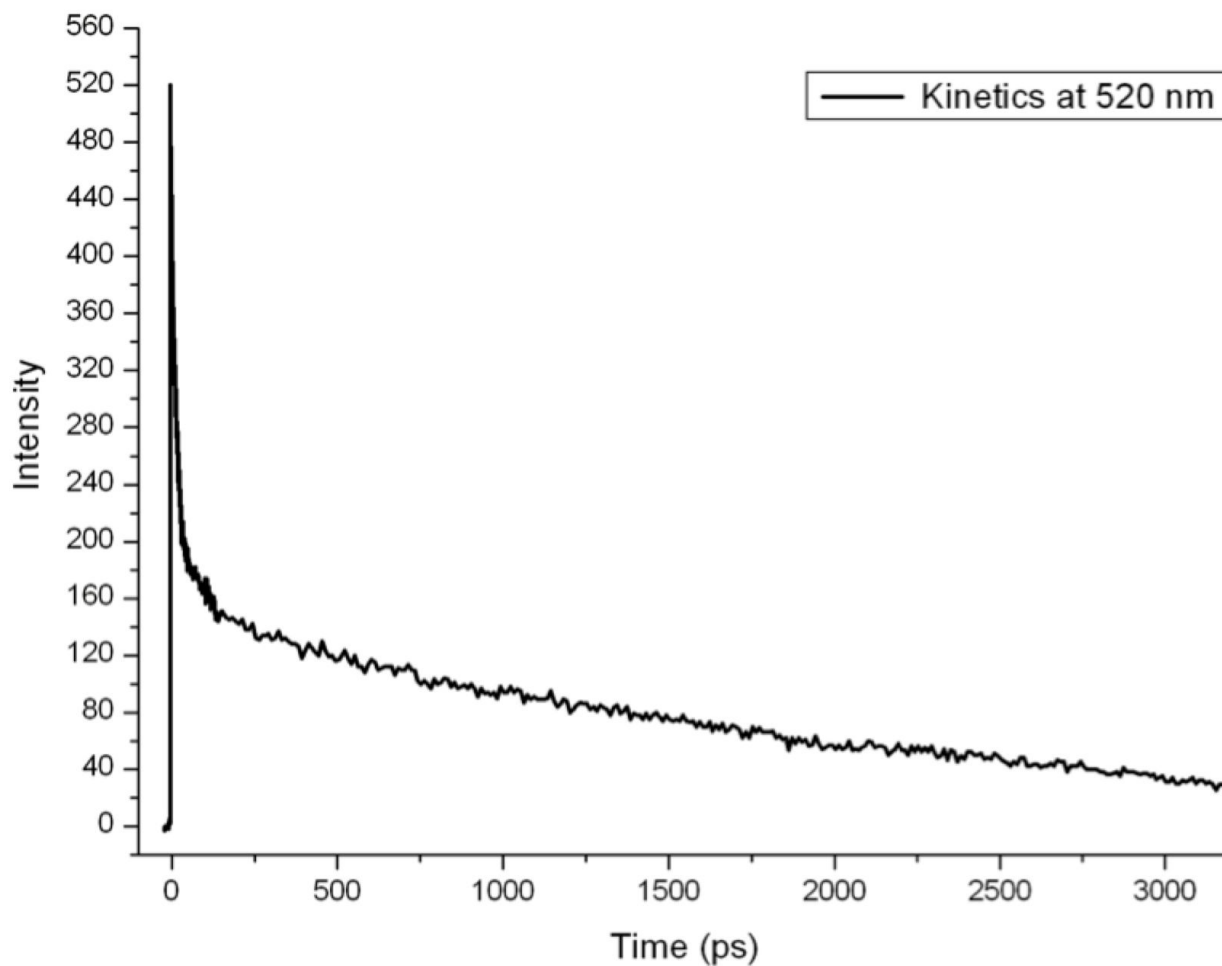
Dynamic Surface of FMN (Bird's Eye View)



Dynamic Surface of FMN (3D View)



Fluorescence Kinetic of FMN in Water



Fluorescence Spectra of FMN in Water

