

HELIOS

Femtosecond Transient Absorption Spectrometer

Femtosecond Transient Absorption of NiTPPS

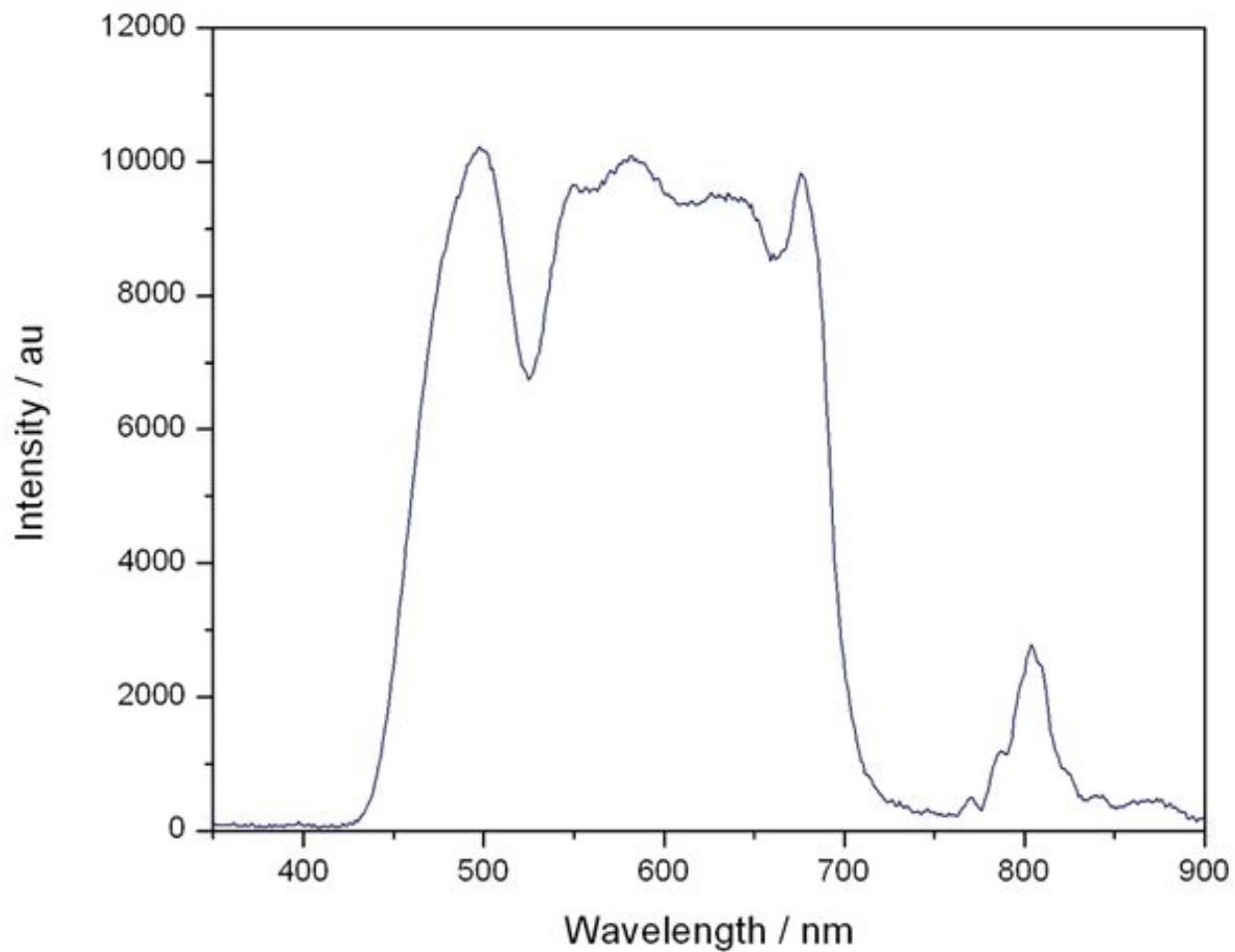


DATA EXAMPLE

Experiment Details

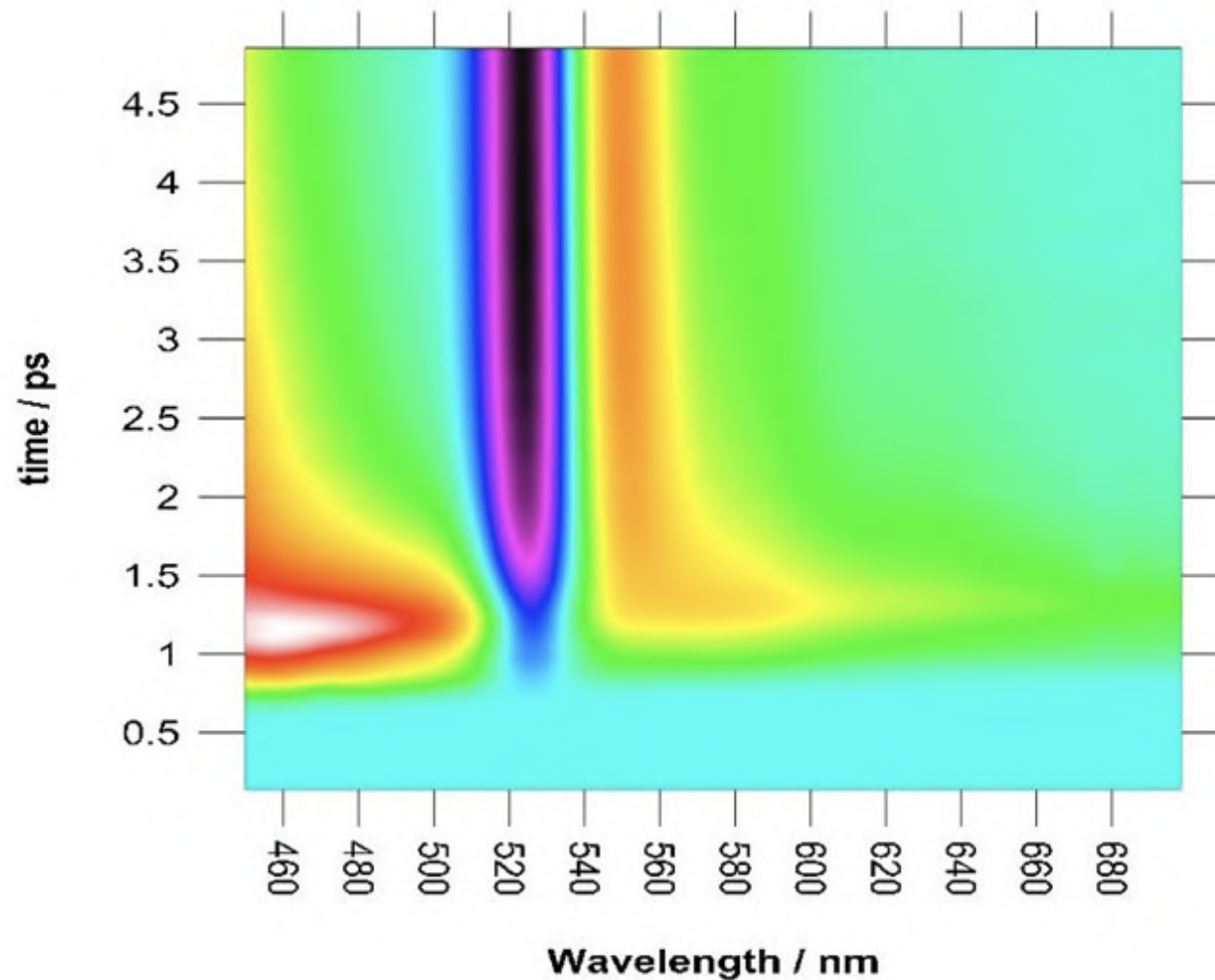
- Sample: Nickel Tetra-Sulphonato-Phenyl-Porphyrin (NiTPPS)
- Solvent: Water
- Laser / OPA: Legend Elite(Coherent) @ 1 kHz / Harmonics Generator
- Pump energy: 3 μ J
- Pump wavelength: 400 nm
- Averaging time per scan: 5.0 s
- The experiment was performed with a single probe channel (no reference)
- The background noise in the experiment was 5E-5 OD
- No correction for excitation energy fluctuations was performed

HELIOS Probe Light Spectrum

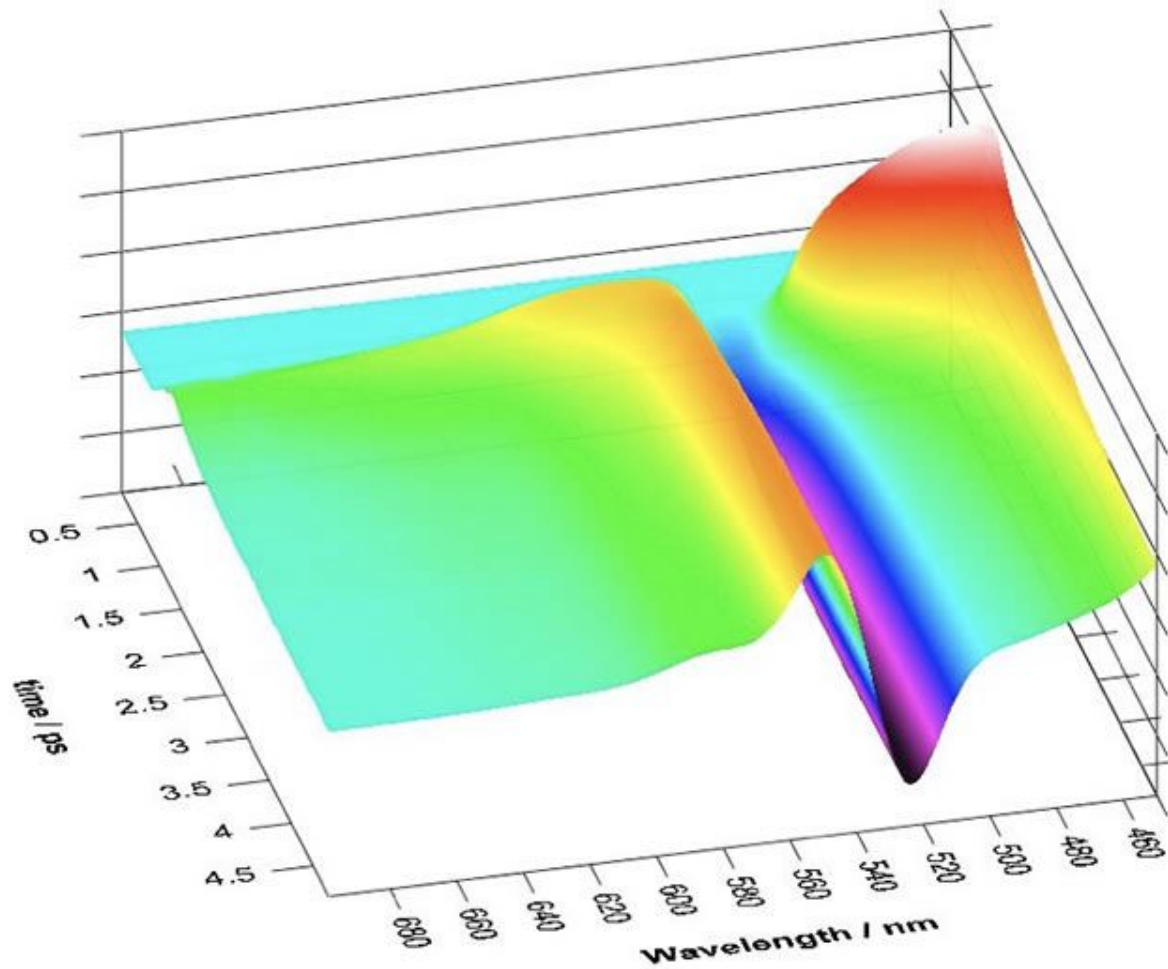


Dynamic Surface of NiTPPS Linear Timescale

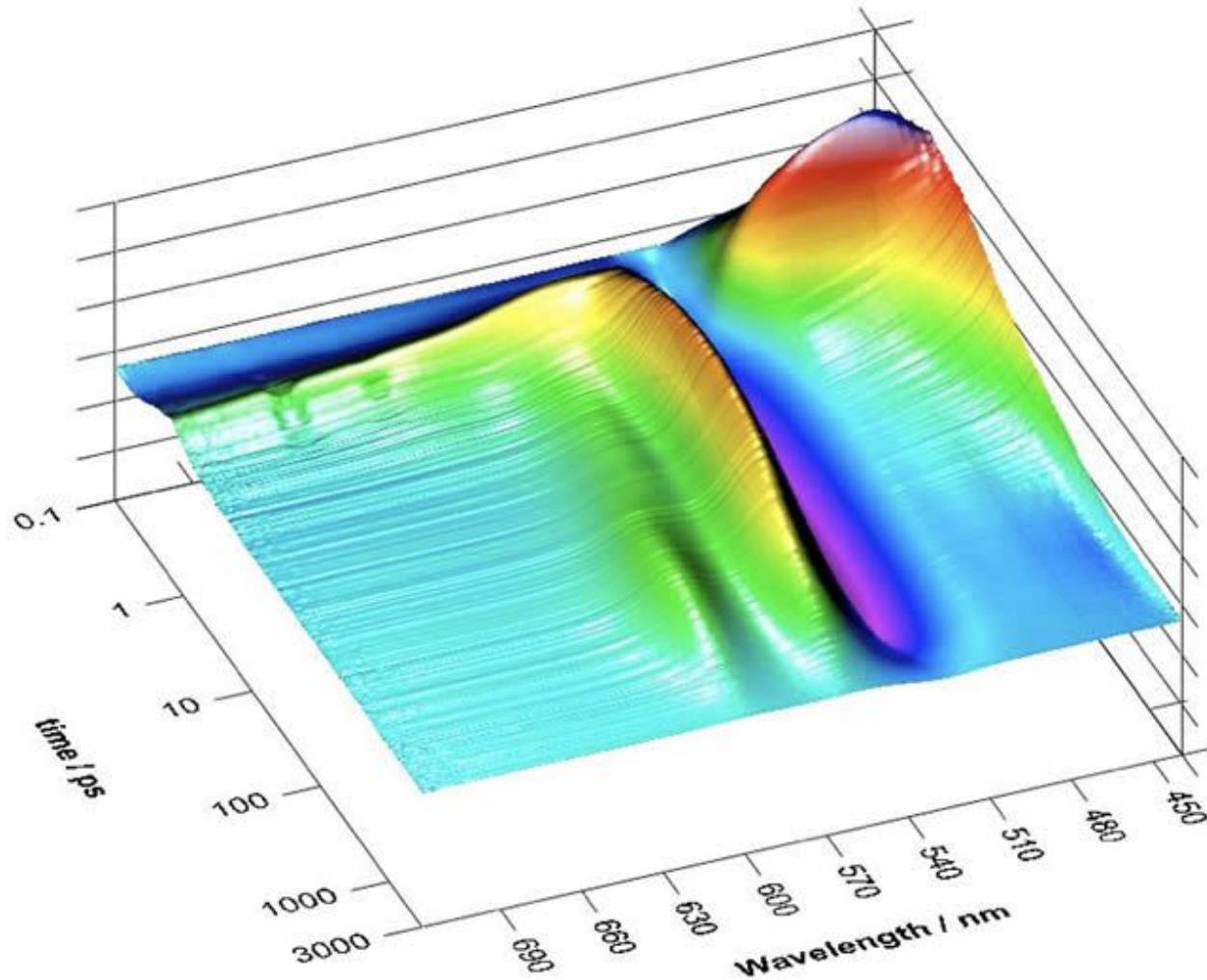
(Bird's Eye View)



Dynamic Surface of NiTPPS Linear Timescale



Dynamic Surface of NiTPPS Logarithmic Timescale



Transient Kinetics of NiTPPS in Water

at Various Wavelengths

