# MATRIX-1

## EXAMPLE MEASUREMENT

# DCM LASER DYE

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Ultrafast Spectroscopy

# EXPERIMENTAL CONDITIONS

- Sample: DCM Laser dye dissolved in ethanol (1 mm cuvette)
- Laser: PHAROS, LIGHT CONVERSION
- Gate wavelength: 1030 nm
- Excitation wavelength: 515 nm
- Excitation pulse energy: 20 nJ/pulse
- Filter: 550 nm long-pass
- Laser repetition rate: 12.5 kHz
- Measurement time per time step: 5 second
- Number of scans: 6 scans
- Data processing: Background subtraction

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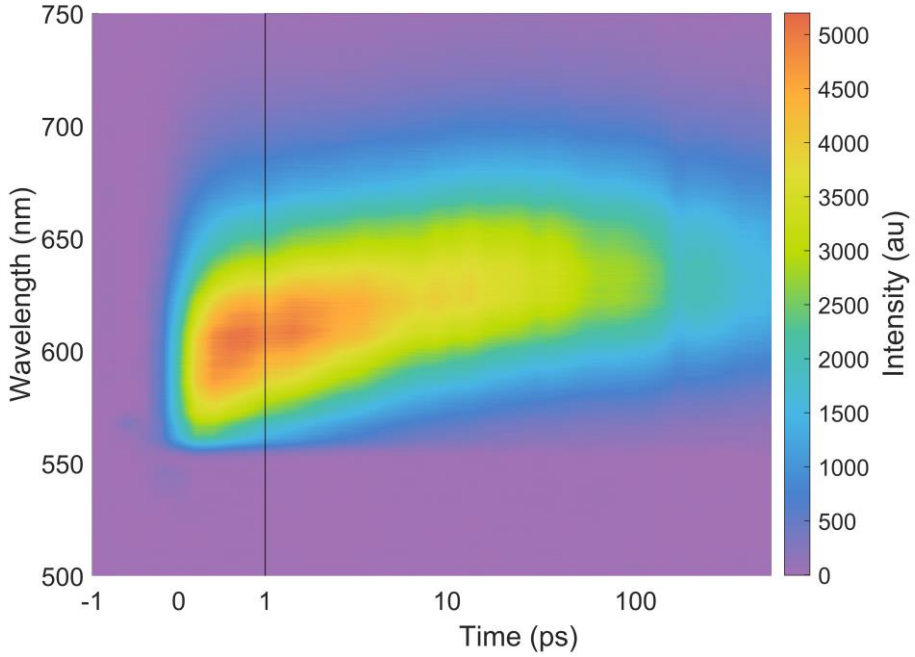
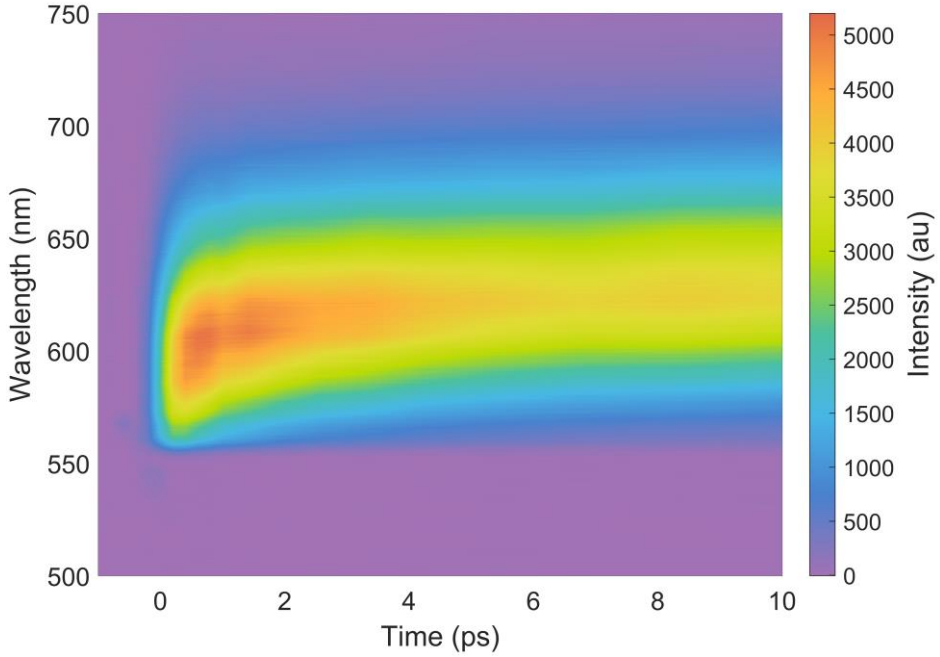
# DCM LASER DYE

## *Lin-Log time scale*




## *Linear time scale*

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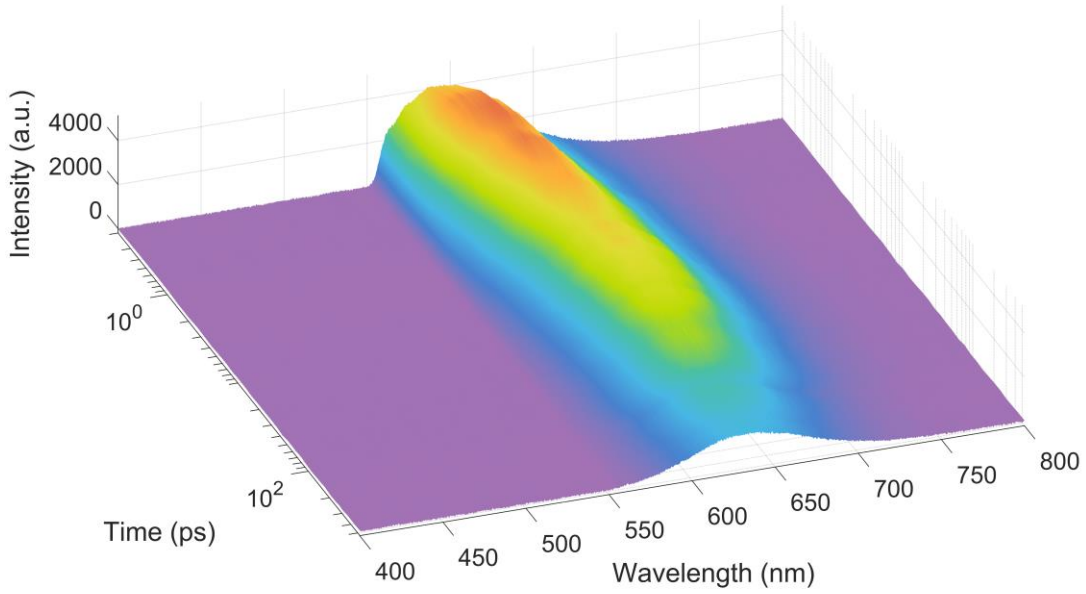
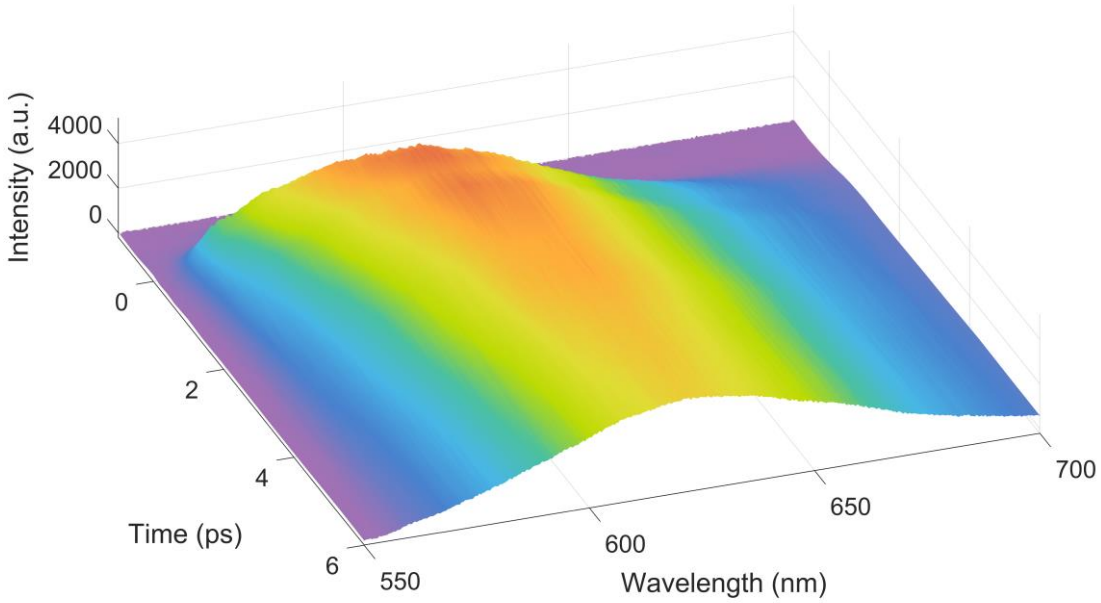
# DCM LASER DYE

## *Log time scale*




## *Linear time scale*

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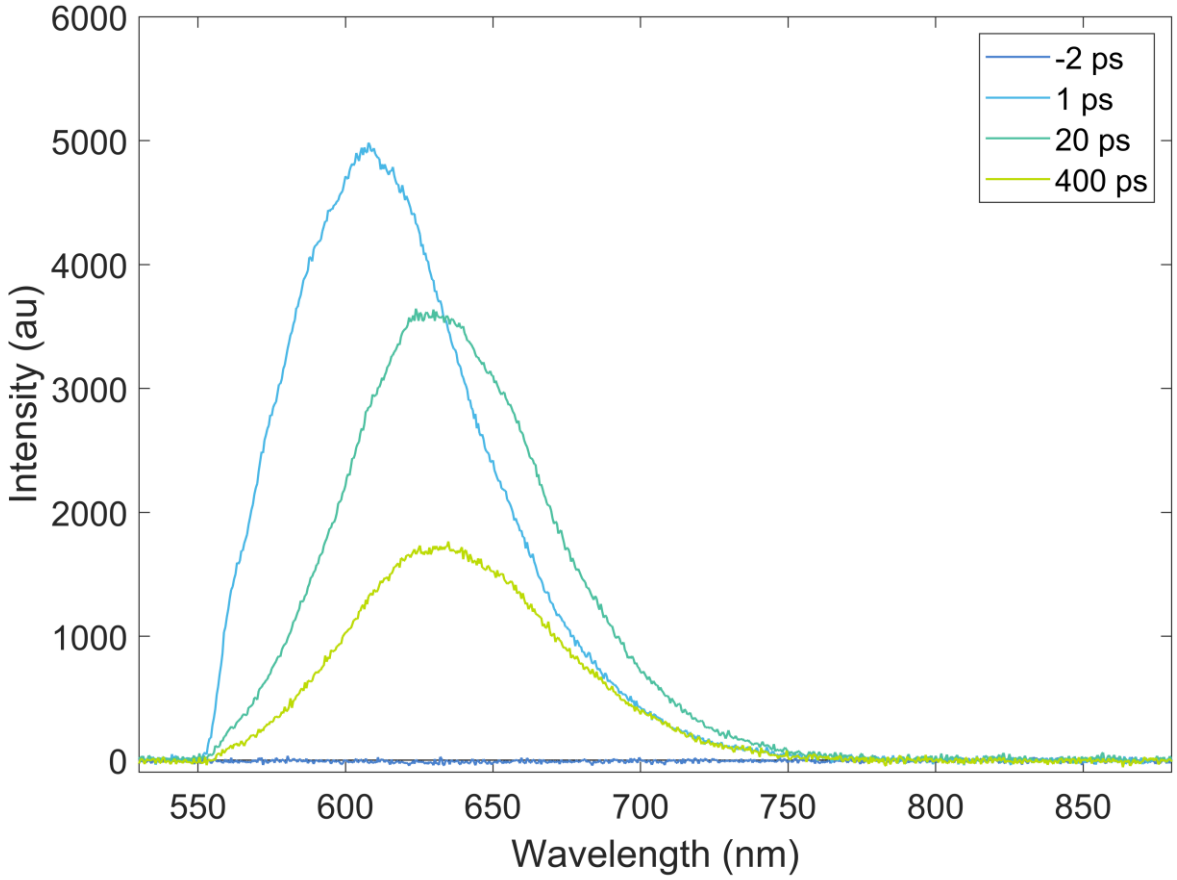
# SPECTRA

***Spectral slices of DCM Laser dye, averaged over 3 time points centred around the indicated time point.***

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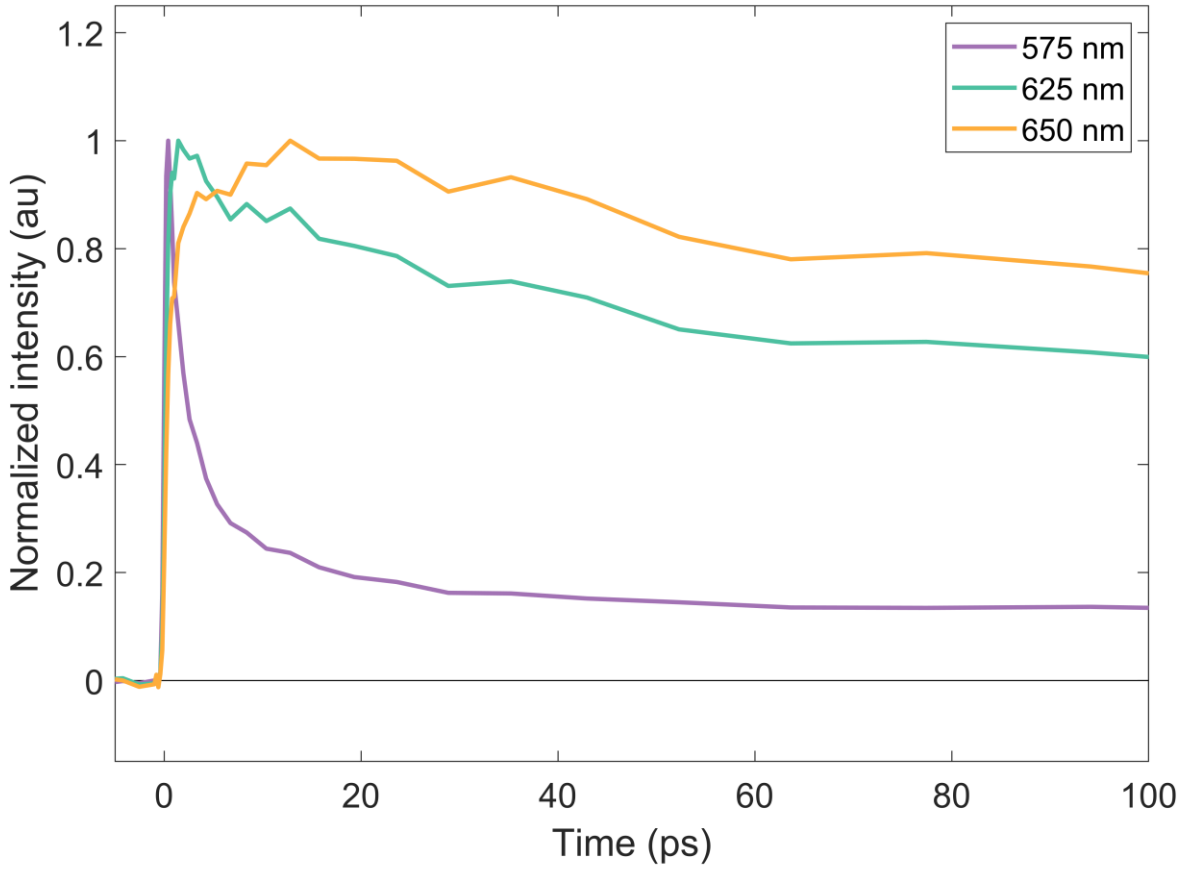
# KINETICS

***Temporal slices of DCM Laser dye, averaged over 5 pixels centred at the indicated wavelength.***

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# MATRIX-1

## EXAMPLE MEASUREMENT

# COUMARIN-500

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Ultrafast Spectroscopy

# EXPERIMENTAL CONDITIONS

- Sample: Coumarin-500 dissolved in ethanol (1 mm cuvette)
- Laser: PHAROS, LIGHT CONVERSION
- Gate wavelength: 1030 nm
- Excitation wavelength: 343 nm
- Excitation pulse energy: 20 nJ/pulse
- Filter: 450 nm long-pass
- Laser repetition rate: 12.5 kHz
- Measurement time per time step: 5 second
- Number of scans: 6 scans
- Data processing: Background subtraction

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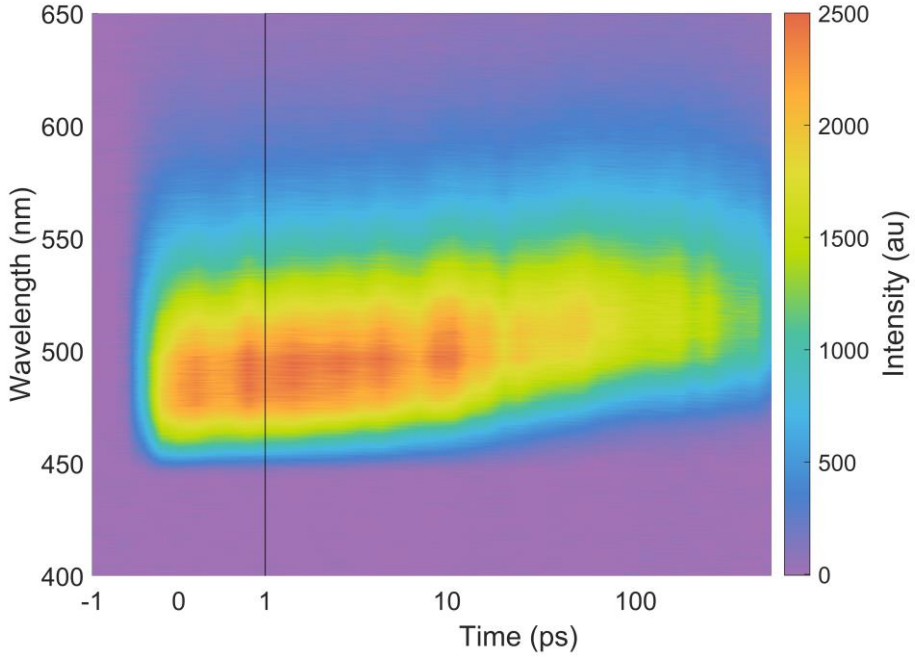
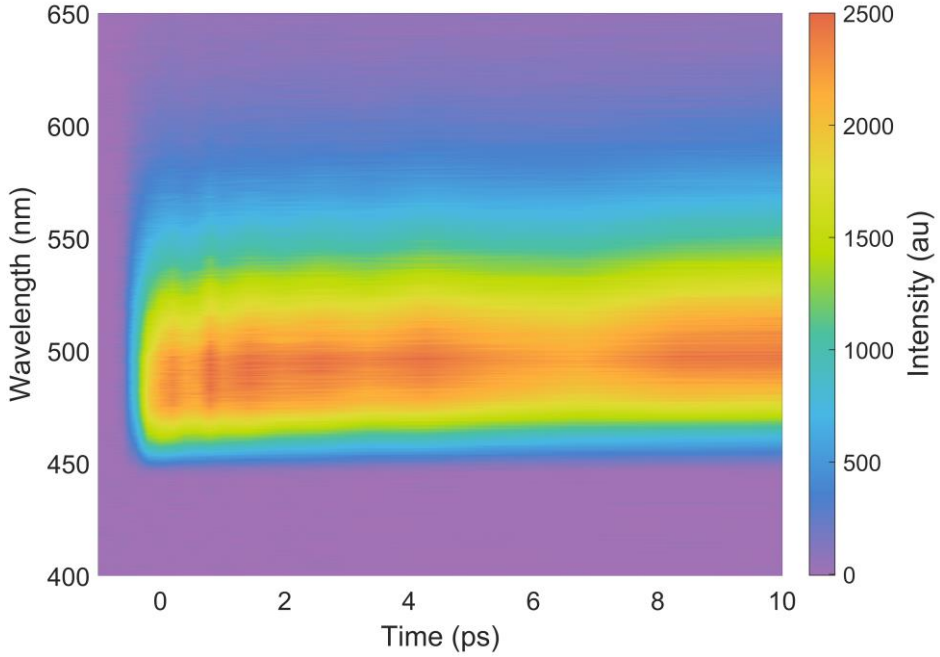
# COUMARIN-500

## *Lin-Log time scale*




## *Linear time scale*

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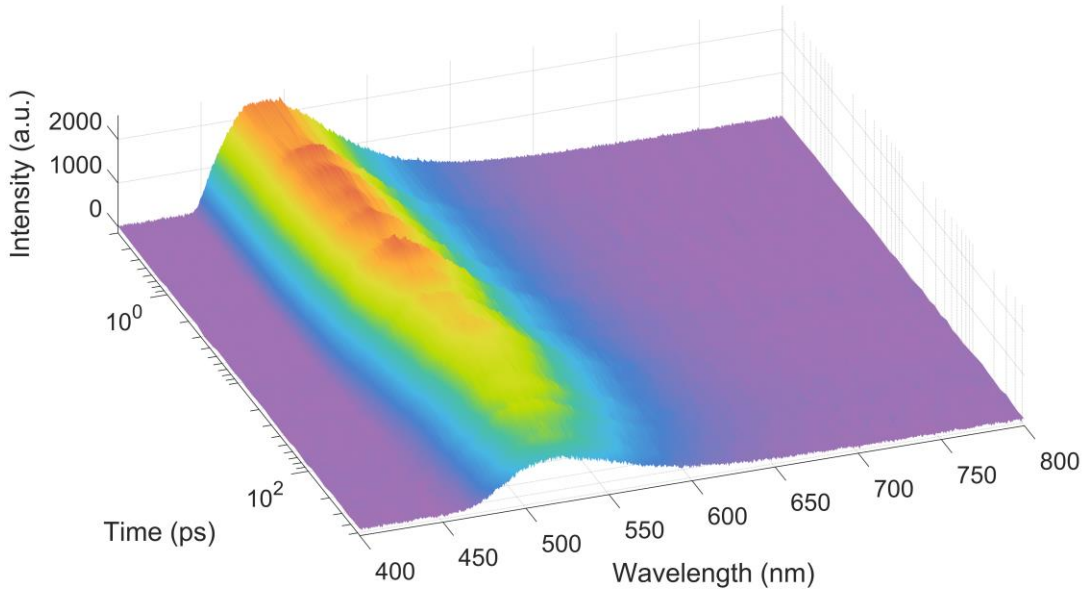
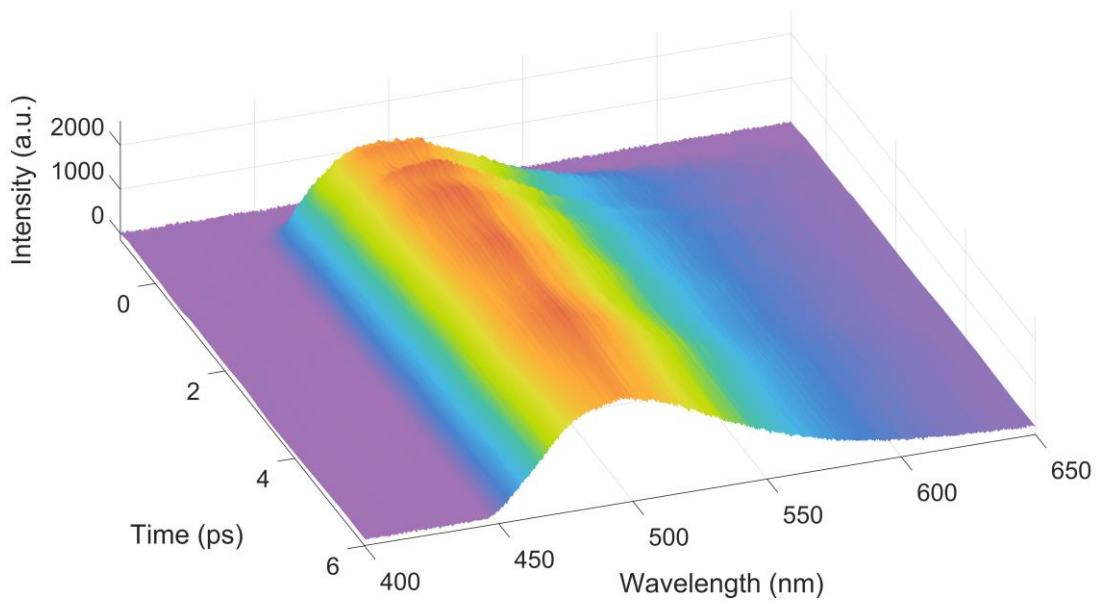
# COUMARIN-500

## *Log time scale*




## *Linear time scale*

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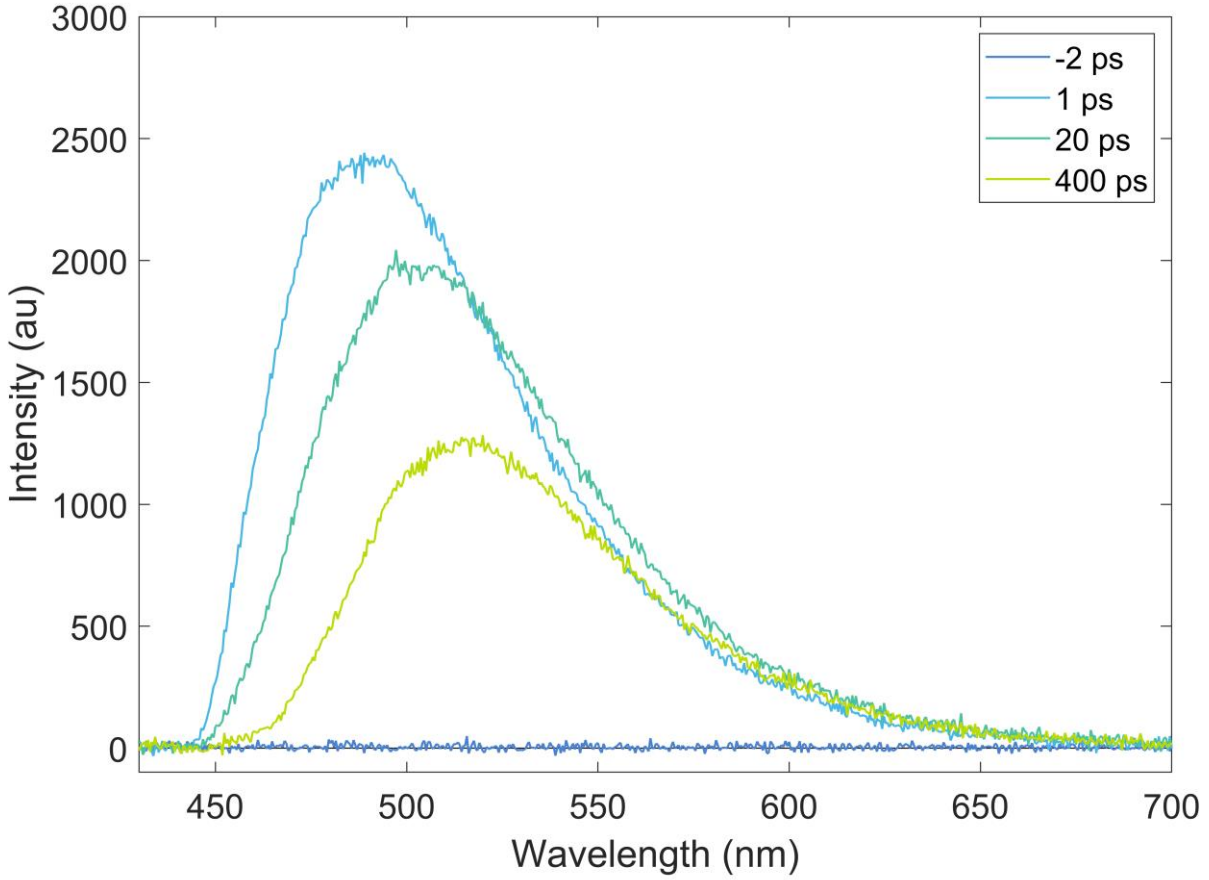
# SPECTRA

***Spectral slices of Coumarin-500, averaged over 3 time points centred around the indicated time point.***

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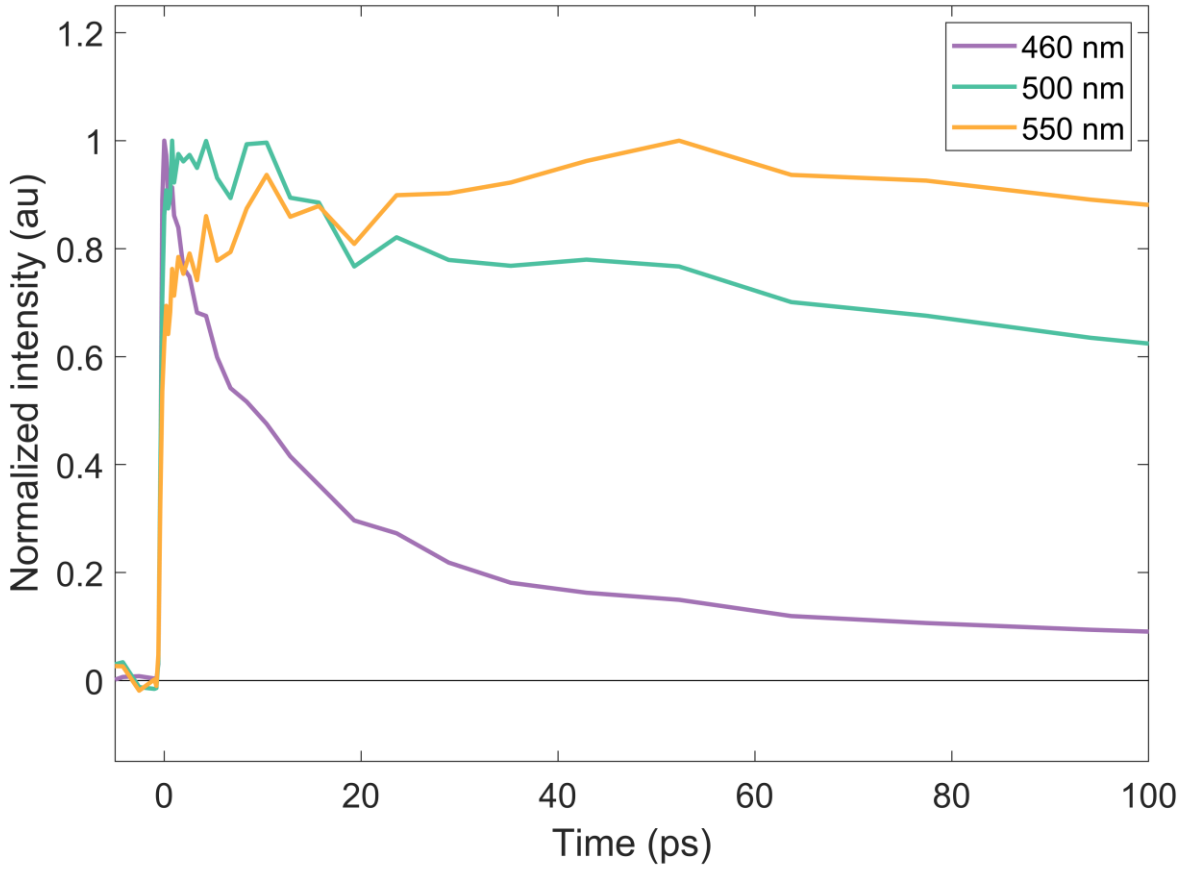
# KINETICS

***Temporal slices of Coumarin-500, averaged over 5 pixels centred at the indicated wavelength.***

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