

HALCYONE

Data Example

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ULTRAFAST SYSTEMS
Time-Resolved Spectrometry Solutions



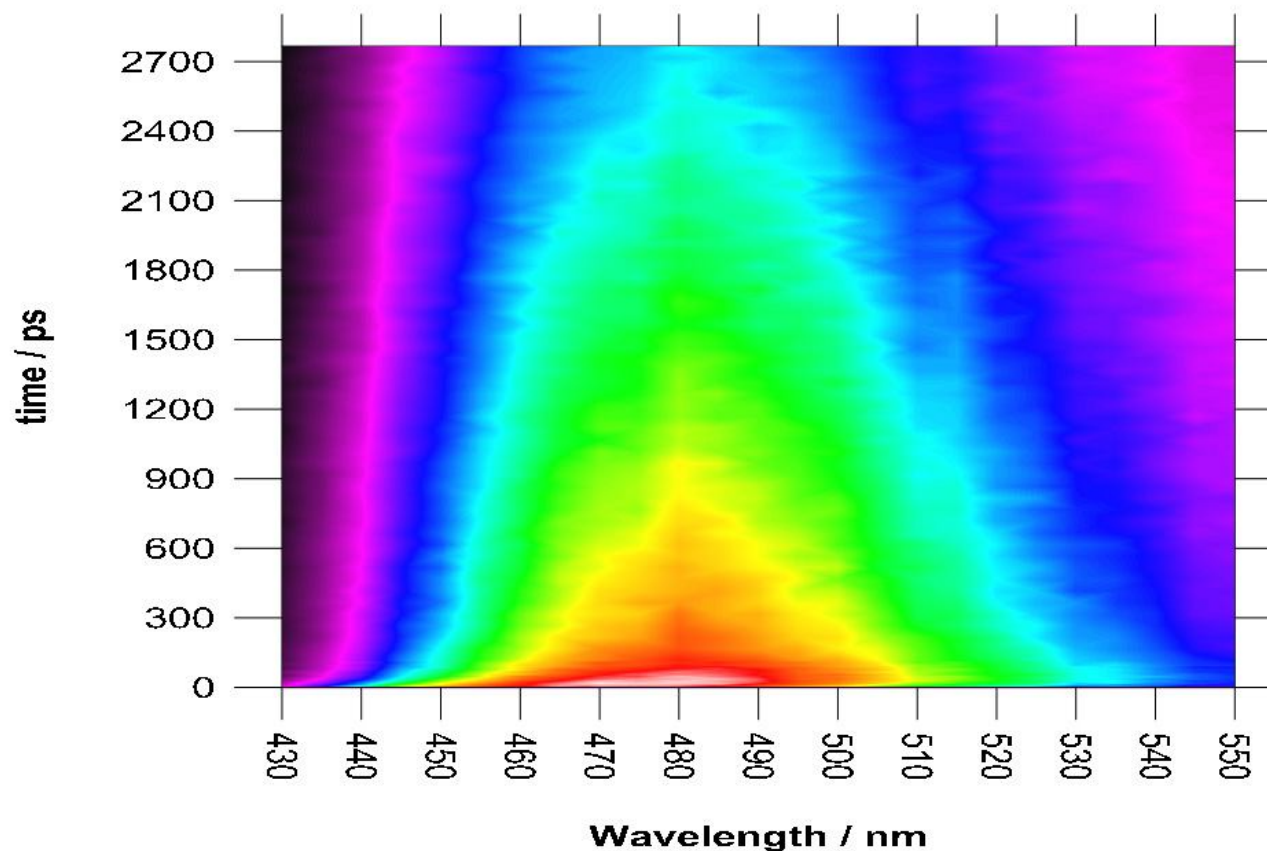
EXPERIMENTAL DETAILS

- The lab was not humidity controlled, air conditioning was set to 76° F, however the temperature fluctuations were up to 4 degrees throughout the day.
- Laser repetition rate was 80 MHz.
- The photoexcitation of the samples was done with the SH (second harmonic) of the fundamental laser output - 400 nm.
- Each time/wavelength point was a result of a 1 sec integration.
- The photoexcitation power was 3 mW, no correction for power fluctuations was performed.
- Sample measured: Coumarin 480 in ethanol.





DYNAMIC SURFACE

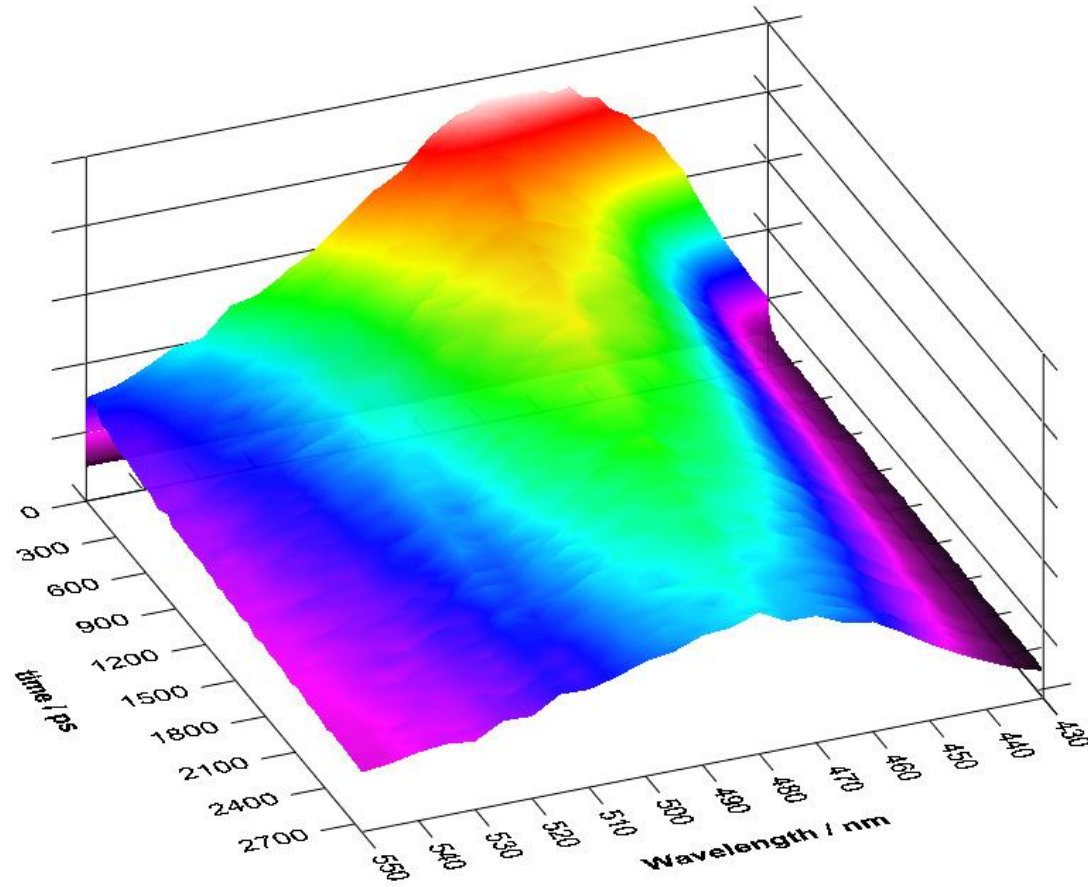


Intensity-Wavelength-Time surface of Coumarin 480.
Bird's eye view.



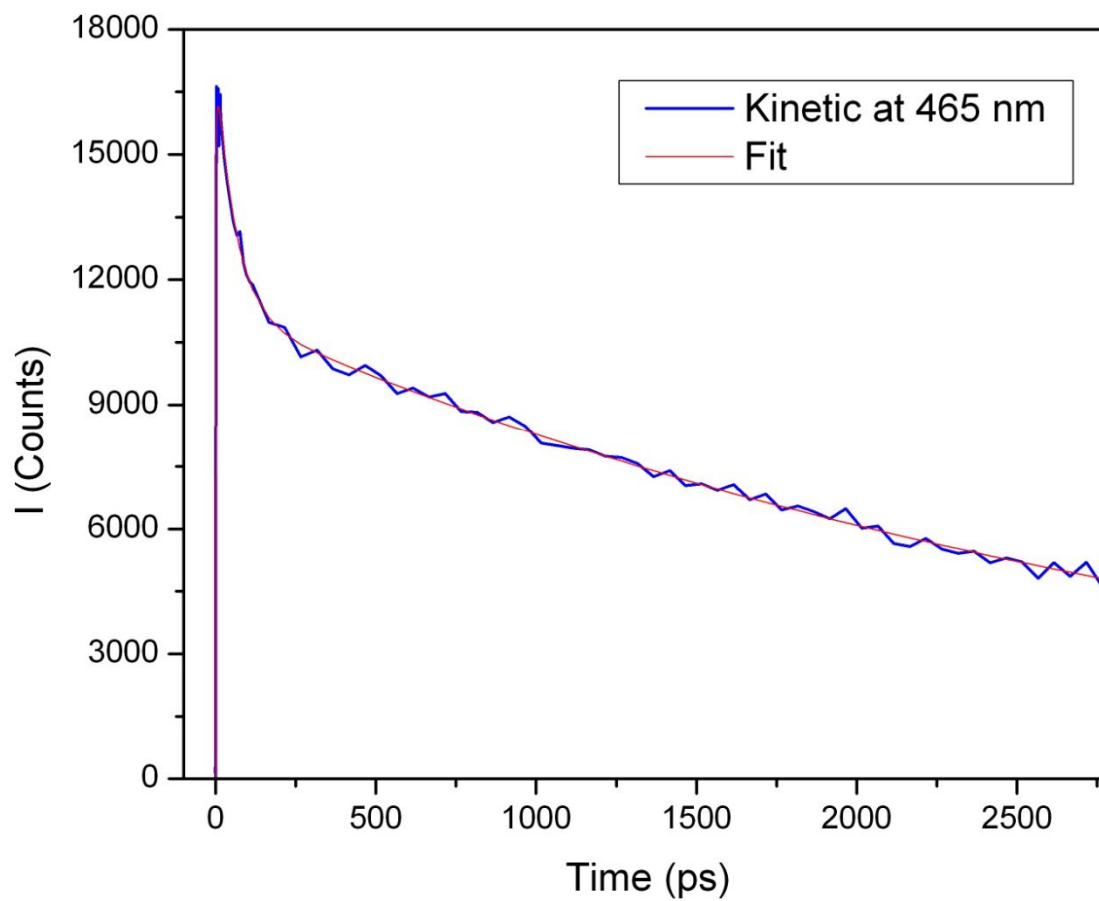


DYNAMIC SURFACE



Intensity-Wavelength-Time surface of Coumarin 480. 3D view.

DATA EXAMPLES

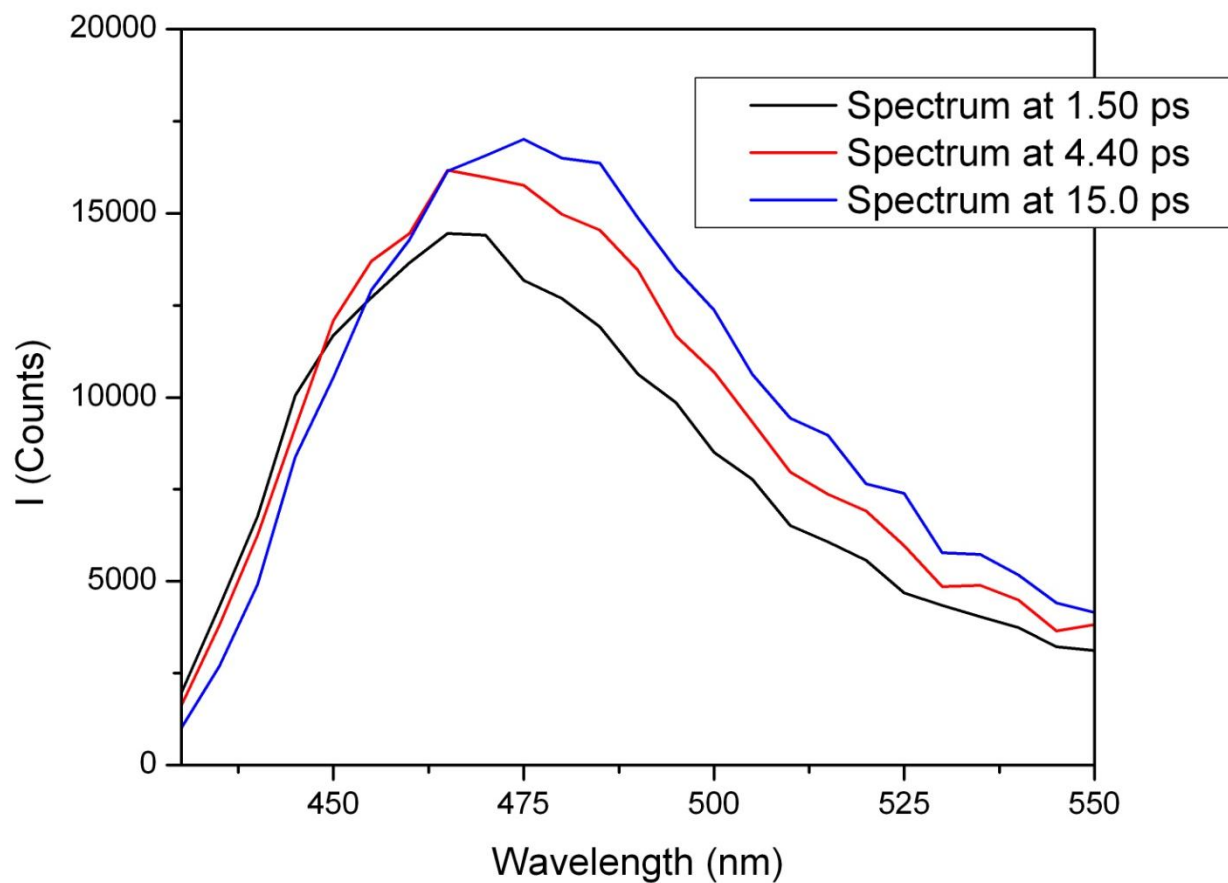


Kinetic profile of Coumarin 480 in ethanol at 490 nm.





DATA EXAMPLES



Spectral profiles of Coumarin 480 in ethanol at various delays.

