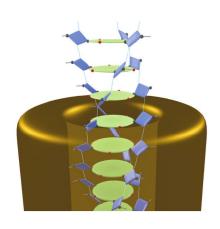


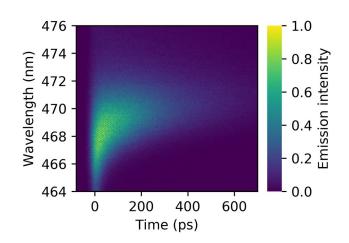
Time-Resolved Emission Spectroscopy on Self-Assembled Nanostructures

Master / Bachelor research project

Our idea:

Self-assembly of organic molecules into supramolecular nanostructures often results in different species of aggregates with slightly different molecular arrangement. The photophysical properties of such species often differ in the **spectral and the temporal domain**. In this project, you will use an interferometer-based approach to discriminate between different species of aggregates, analyze their photophysical properties, and reveal details about intermolecular order.





Your contribution:

- Take into operation a compact interferometer with time correlated single photon (TCSPC) detection
- Identify various aggregate species via time-resolved emission spectroscopy (TRES)
- Resolve energy-transfer between different aggregate species in the time-domain
- Operate state-of-the-art equipment for spatially- and time-resolved spectroscopy



Contact us:

Learn more and get to know us:

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