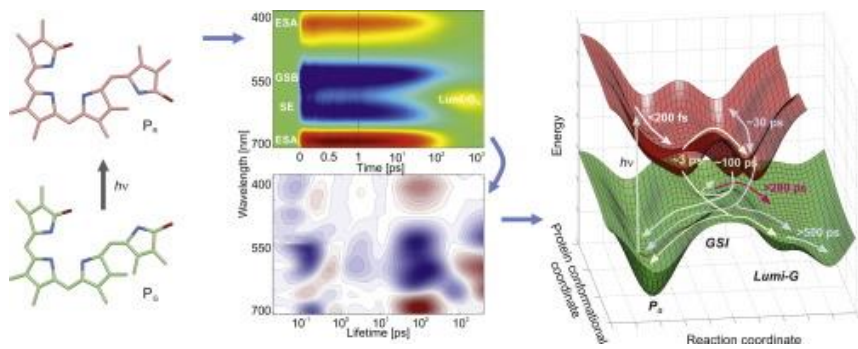




<p>Supervisor</p>	<p>Dr. Chavdar Slavov AK Wachtveitl, Institute of Physical and Theoretical Chemistry chslavov@theochem.uni-frankfurt.de</p>
<p>Topic</p>	<p>Time-resolved spectroscopy is used extensively to investigate the mechanism of operation of photoactive molecular systems such as photochromic switches, photocages, dyes, quantum dots, photoreceptors, photosynthetic complexes, etc. The success of such studies relies on the proper analysis and interpretation of the time-resolved data. Therefore, the development and implementation of advanced data analysis and modelling strategies is an integral part of the development of time-resolved spectroscopy techniques.</p>  <p>Example of detailed analysis of complex transient absorption data from phytochrome type photoreceptors</p>
<p>Working project</p>	<p>Within the practicum you will use MatLab to implement new data analysis techniques and/or structure-based models describing energy transfer of multipigmen systems such as photosynthetic complexes.</p>
<p>Starting date</p>	<p>The internships can be conducted remotely with occasional zoom meetings to evaluate progress and discuss challenges. In this regard, the internships are available immediately.</p>
<p>Minimum requirements</p>	<p>The internship is intended as an introduction to MatLab and programming therefore no prior knowledge on programming is required. However, you should feel comfortable with mathematics</p>
<p>Outlook</p>	<p>The internship could serve as a basis for a complete Master thesis work where ultrafast experiments will be conducted to test the adequacy of the implemented analysis methods.</p>
<p>Application</p>	<p><i>Please send an email with one paragraph motivation.</i></p>