**IMPLEMENTATION OF OPTICAL ASSEMBLY FOR SPECTROSCOPY**

**MOLECULAR FLUORESCENCE**

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The study of electronic transport mechanisms of some organic molecules to application in the preparation of Photovoltaic cells, benefits the manufacturing process of these compounds prior to the development of the solar cell itself. This is because it allows the establishing of the quality of a solar cell from its molecular properties. In this talk, it is going to be presented the advances up to date in the local development of optical assembly through the use of high-resolution ultra-fast spectroscopy which consider the processes of emission-absorption which are governed by the mechanisms of fluorescence and absorption. With this system, we expect to generate an analysis protocol that considers important aspects of Photovoltaic dynamics, mechanisms of energy migration, and absorption which are fundamental aspects of the Photovoltaic behavior.