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Symmetry Matters for the Electronic Structure of Light-Harvesting

By Martin Richter

Cuvillier Verlag Aug 2008, 2008. Taschenbuch. Book Condition: Neu. 211x144x12 mm. Neuware - In this thesis the electronic structure of light-harvesting complexes from the photosynthetic apparatus of purple bacteria was investigated. The photosynthetic unit consists of mainly two different light-harvesting complexes, the peripheral light-harvesting complex LH2, and the light-harvesting core complex RC-LH1, where the charge separation takes place. The main function of these complexes is the absorption and transfer of light energy to the reaction center. This energy funnel is formed by the different pigment pools B800 and B850 from LH2 and B875 from LH1 which are named according to their main absorption in the near-infrared at room temperature. In a series of experiments the main focus was put on the spectral properties of the BChl a pigments within the light-harvesting complexes. By applying polarization dependent single-molecule spectroscopy, details in the electronic structure of the excited states could be determined. In order to put the detergent-solubilized LH2 complexes back into a more native-like environment of phospholipid vesicles, a reconstitution process was developed and verified being able to study the LH2 complexes from *Rps. acidophila*. Three days of dialysis assured a successful reconstitution, which was verified by a sucrose gradient ultracentrifugation. The...



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