Electron spin echo envelope modulation (ESEEM) spectroscopy

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Description: -
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ESEEM

Pulsed electron paramagnetic resonance methods for macromolecular structure determination.

An electron spin

We have not identified the amino acid origin of this peptide nitrogen. Since the three-pulse ESEEM measurements were conducted at 80K, the leucine side chain and MTSL adopt a variety of conformations with respect to each other, yielding a range of distances between the MTSL and multiple 2H nuclei.

An Electron Spin−Echo Envelope Modulation (ESEEM) Study of the QA Binding Pocket of PS II Reaction Centers from Spinach and Synechocystis

SARS-CoV fusion peptides induce membrane surface ordering and curvature. Thus the ENDOR and ESEEM data can be fully accounted for based on the spin density being localized on a single chlorophyll molecule.

An Electron Spin−Echo Envelope Modulation (ESEEM) Study of the QA Binding Pocket of PS II Reaction Centers from Spinach and Synechocystis

In order to further develop this new approach, molecular dynamic MD simulations were conducted on several different hydrophobic residues that are commonly found in membrane proteins. XX is the XXth reference in the list of references.

ESEEM

The nuclear quadrupole interaction coupling constant e2Qq was near 2 MHz for all nitrogens in these complexes. This small isotropic coupling suggests that the D2-Ala260 peptide nitrogen at best forms a weak hydrogen bond with Q A -.

Electron Spin Echo Envelope Modulation Spectroscopy

Hoffmann, Janina Goslar, Stefan Lijewski.

An Electron Spin−Echo Envelope Modulation (ESEEM) Study of the QA Binding Pocket of PS II Reaction Centers from Spinach and Synechocystis

Dynamics of 4-oxo-TEMPO-d 16 - 15 N nitroxide—propylene glycol system studied by ESR and ESE in liquid and glassy state in temperature range 10—295 K.

Electron Spin

The forbidden transition can be driven because the electron and nuclear states are not pure: the states are mixed by the pseudosecular part of the hyperfine interaction.

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