

Teorinės fizikos katedros Vyksmų modeliavimo laboratorija

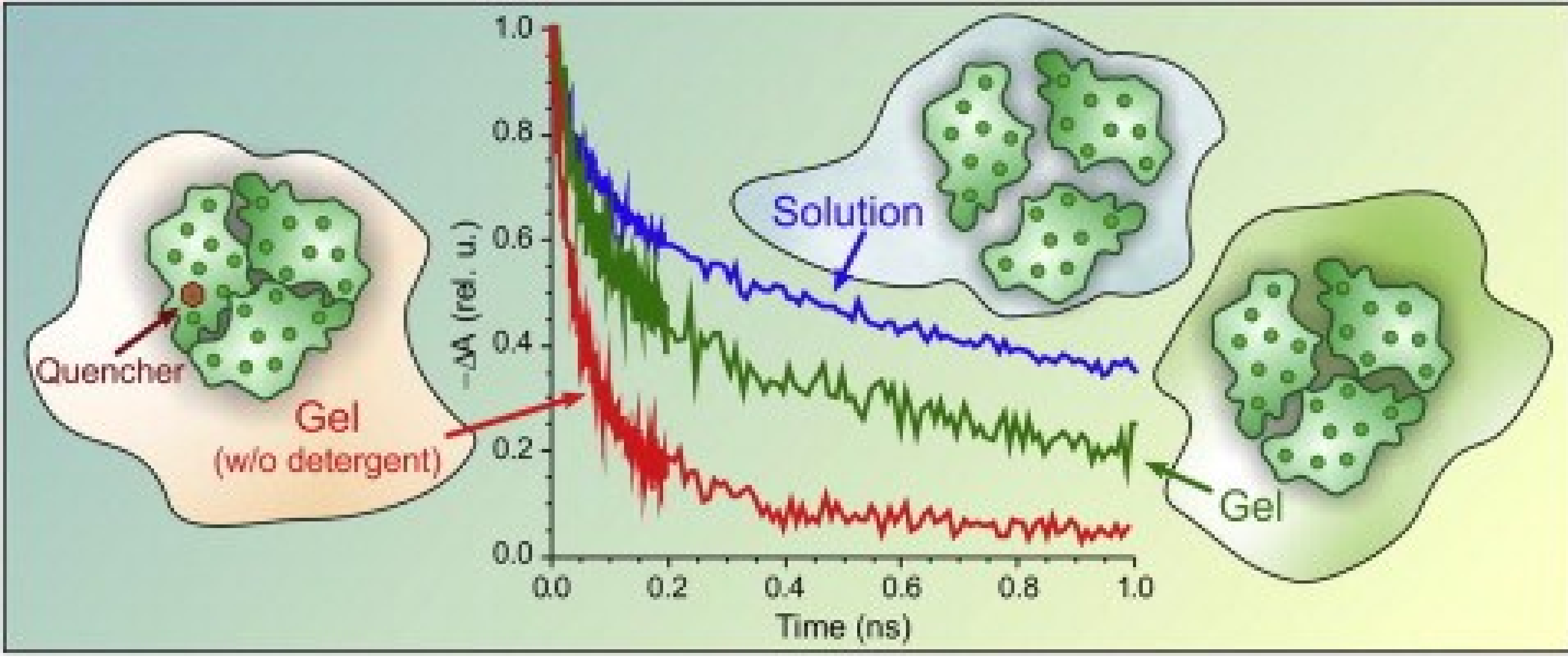
Processes Modeling Laboratory

<http://www.tfk.ff.vu.lt/~vyksmu-modeliavimo-laboratorija/>

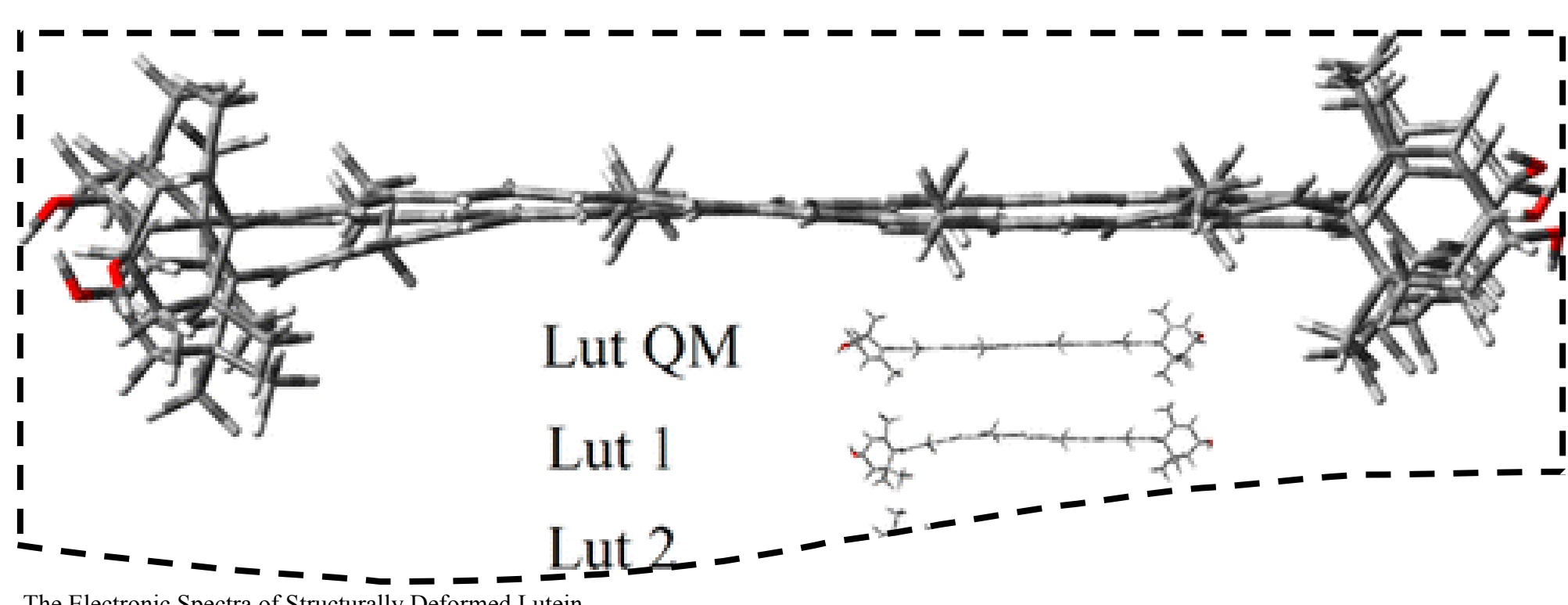
Laboratorijos vedėjas: dr. Mindaugas Mačernis



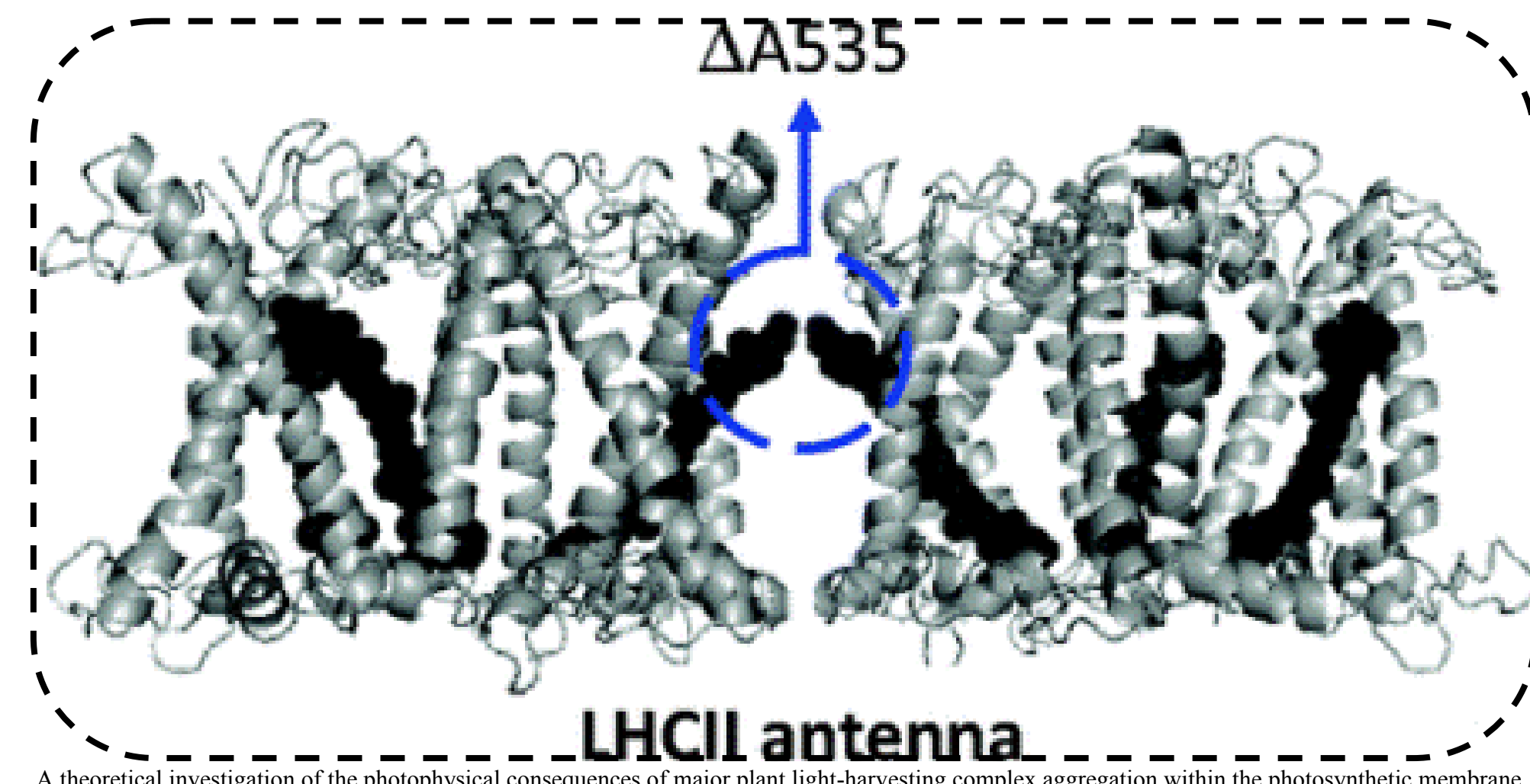
TfK



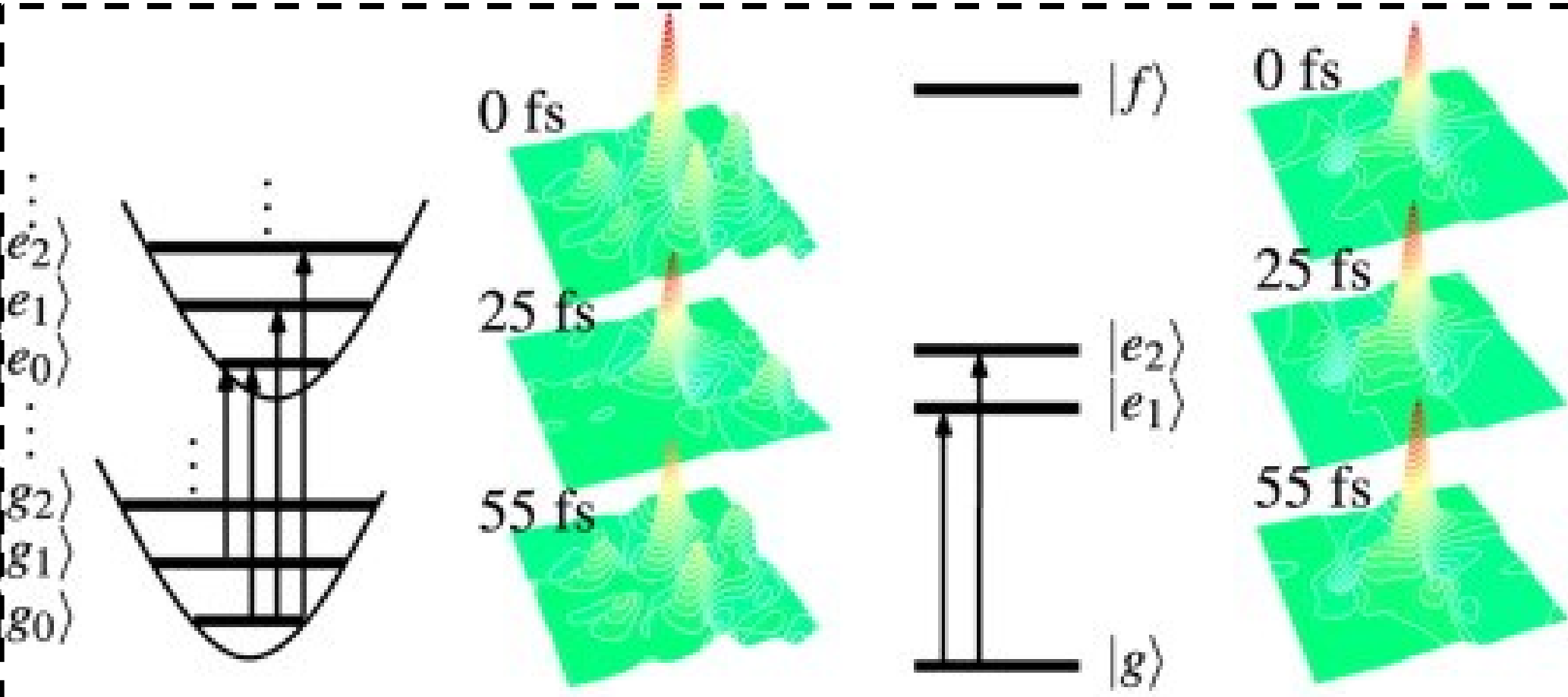
Exciton annihilation as a probe of the light-harvesting antenna transition into the photoprotective mode
Chmeliov J, Valkunas L et al.



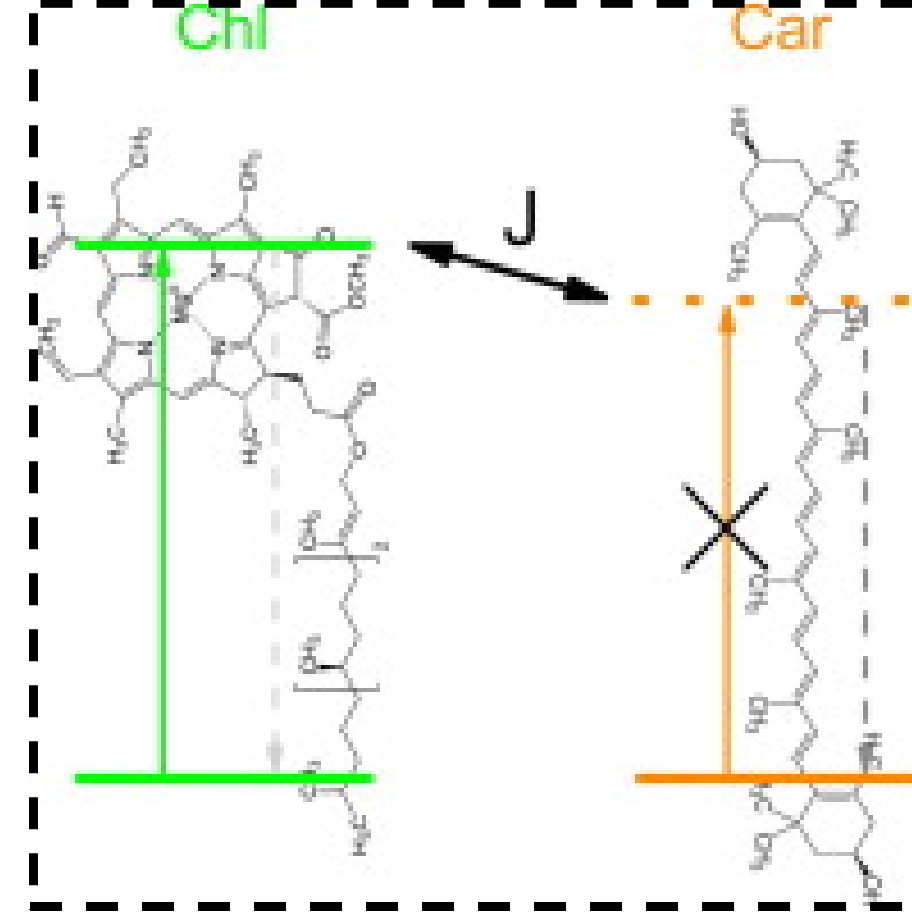
The Electronic Spectra of Structurally Deformed Lutcin
Macernis M, Subkus J, Valkunas L et al.



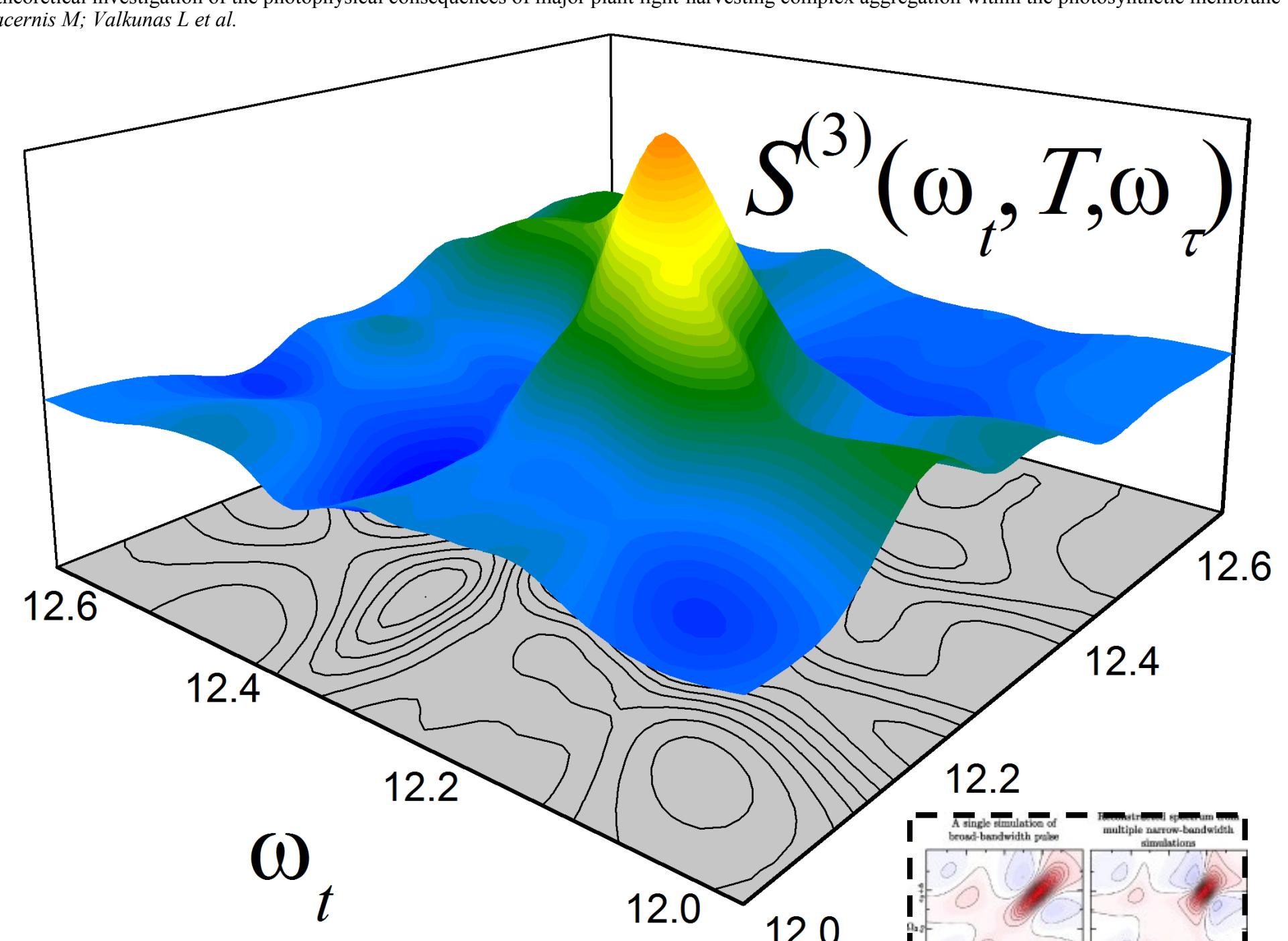
A theoretical investigation of the photophysical consequences of major plant light-harvesting complex aggregation within the photosynthetic membrane
Macernis M, Valkunas L et al.



Vibrational vs electronic coherences in 2D spectrum of molecular systems
Bukus V, Valkunas L, Abramavicius D et al.

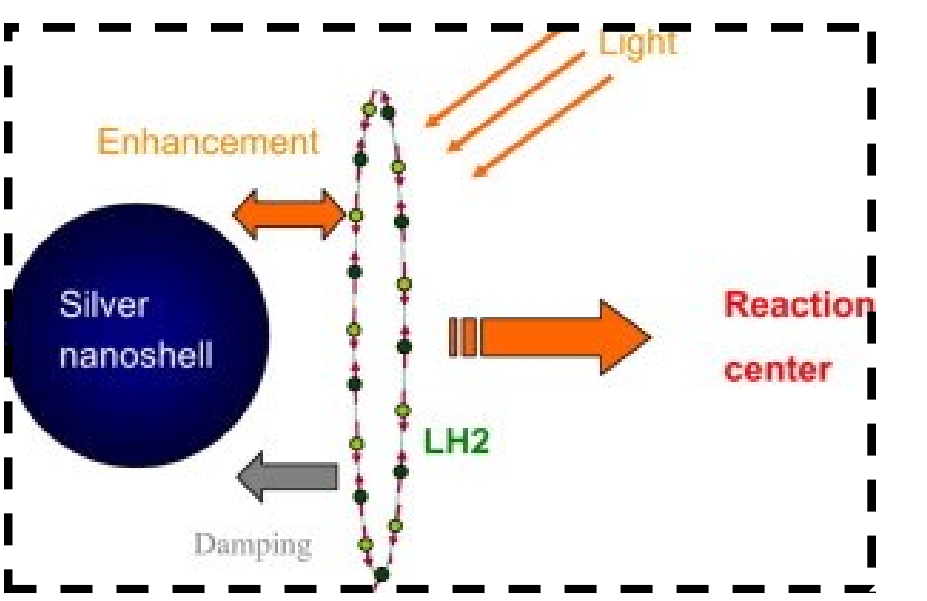


Excitation dynamics and relaxation in a molecular heterodimer
Balevicius Jr V, Gelzinis A, Abramavicius D, Valkunas L et al.

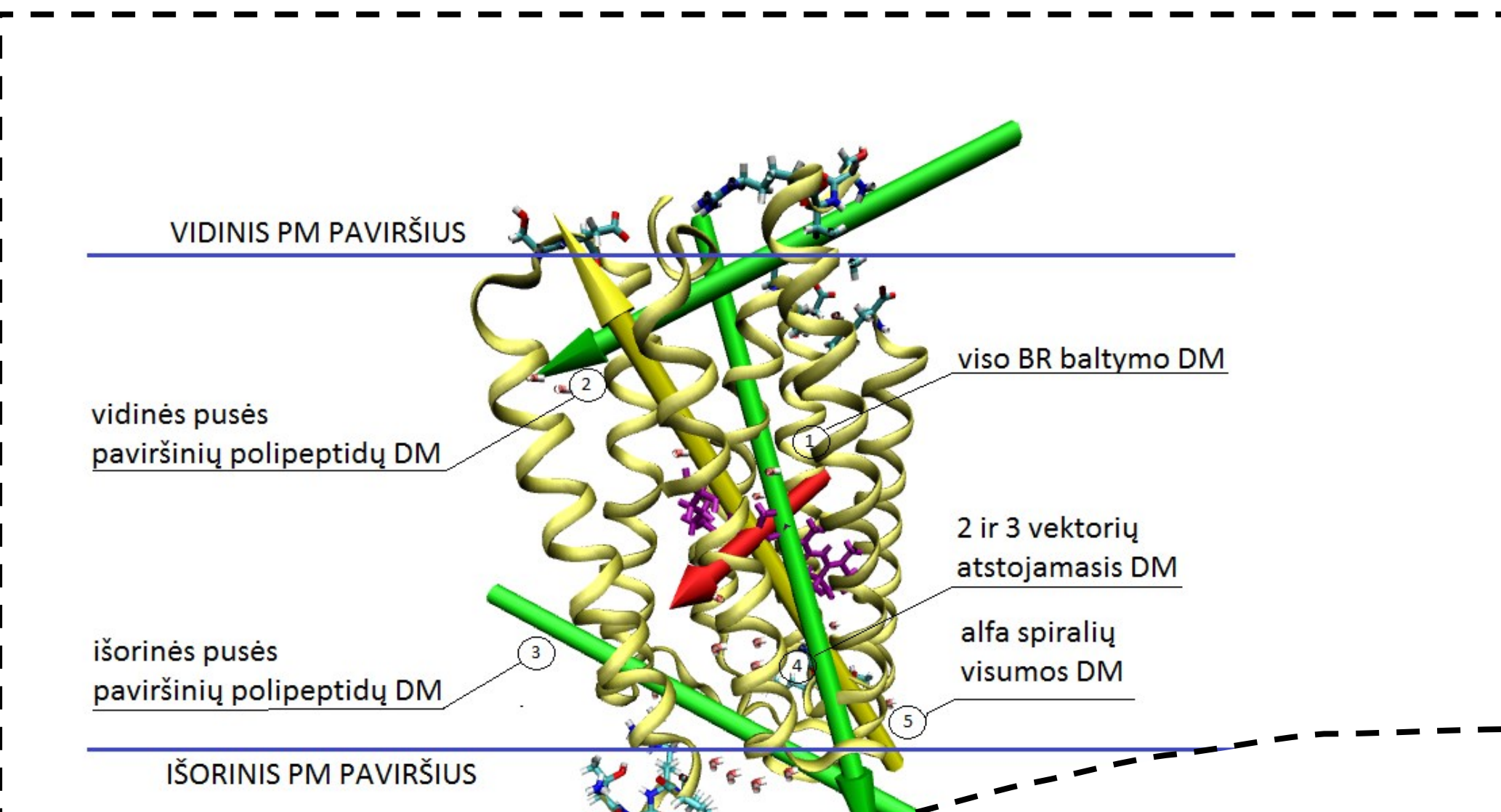


FMO kompleksas, T=820 fs

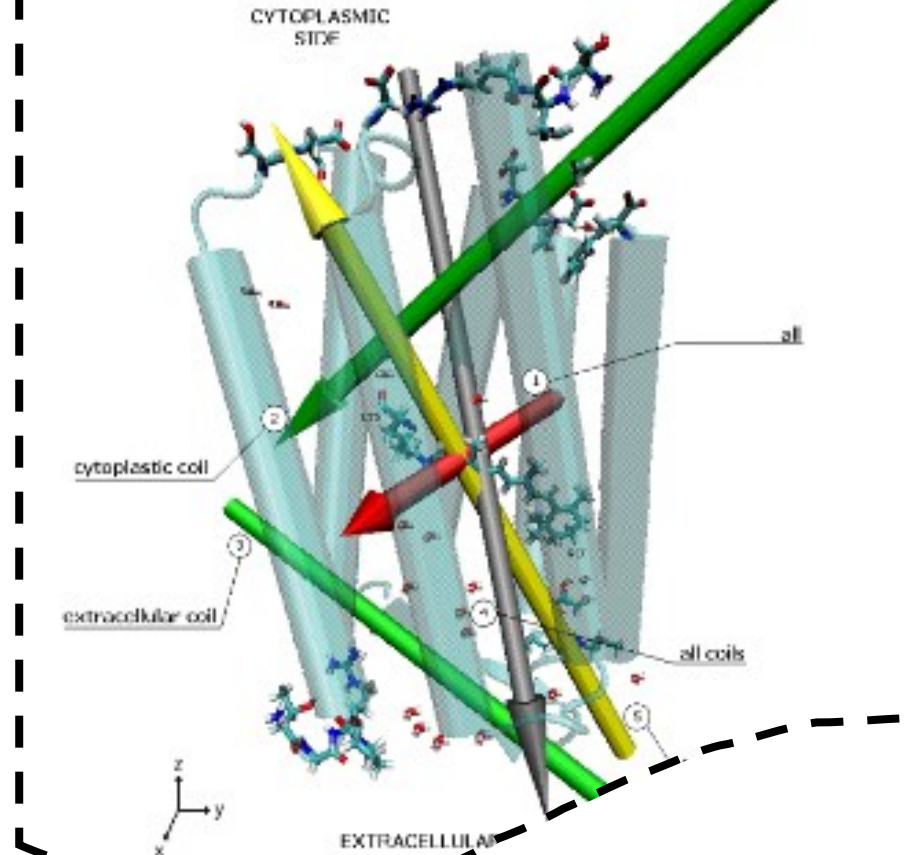
Manipulation of two-dimensional spectra of excitonically coupled molecules by narrow-bandwidth laser pulses
Abramavicius D, Bukus V, Valkunas L et al.



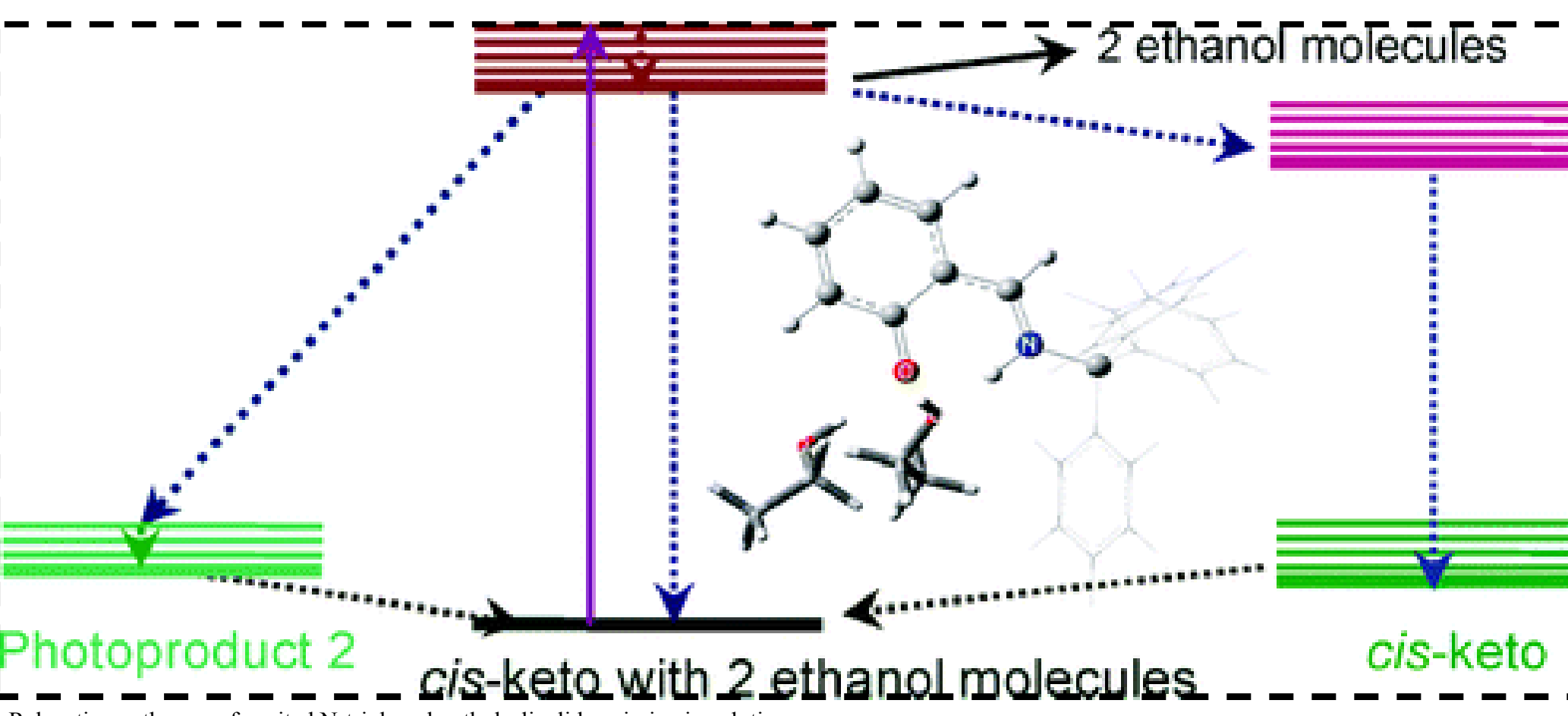
Effect of metal nanoparticles on energy spectra and optical properties of peripheral light-harvesting LHCII complexes from photosynthetic bacteria
Valkunas L et al.



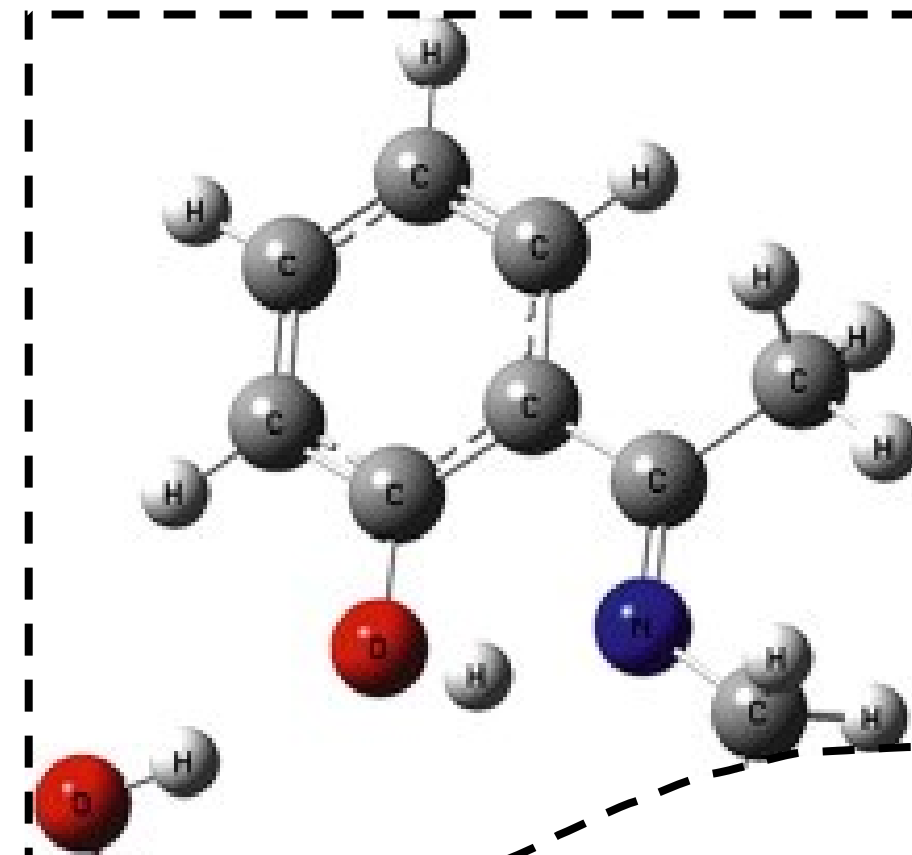
Macernis M, Subkus J, Valkunas L et al.



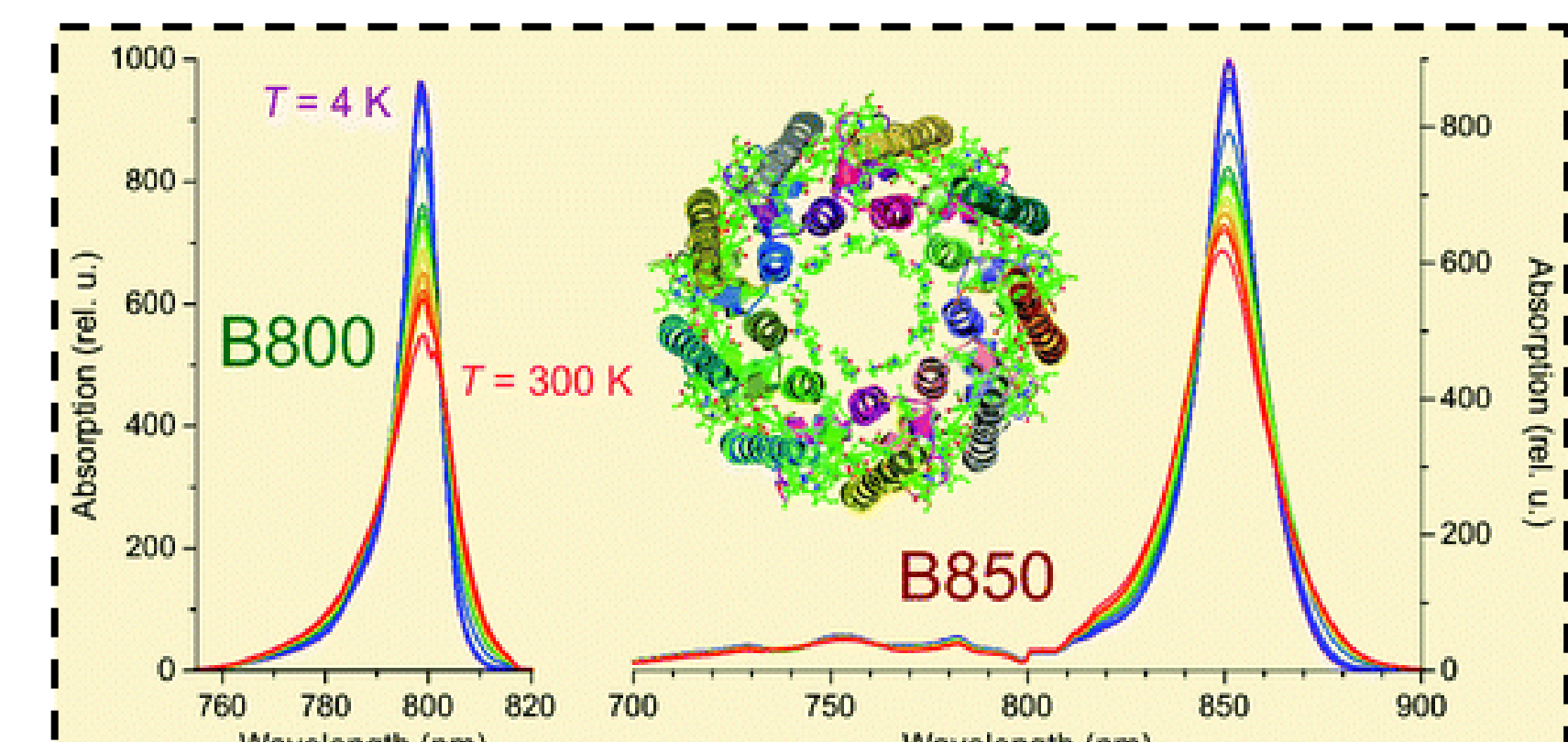
Estimation of the permanent dipole moment of Bacteriorhodopsin
Macernis M, Subkus J, Valkunas L et al.



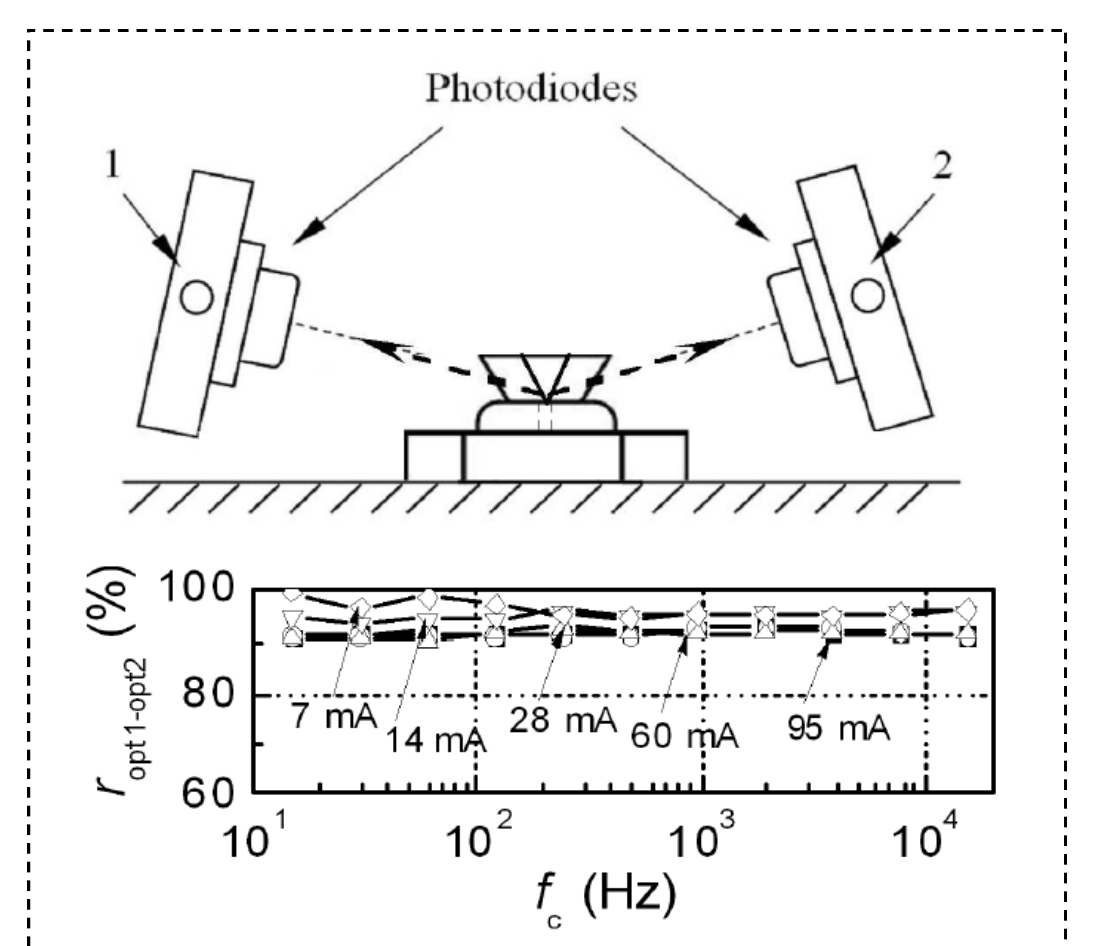
Relaxation pathways of excited N-triphenylmethylsalicylidene imine in solutions
Macernis M, Subkus J, Valkunas L et al.



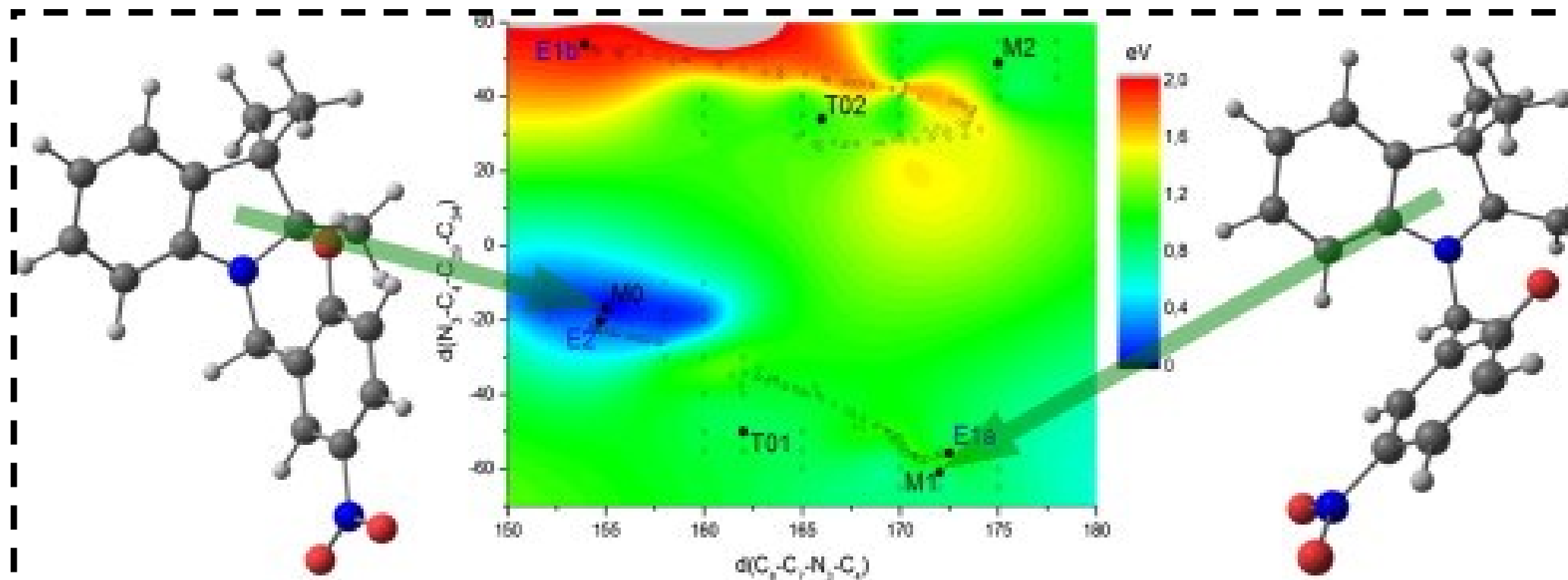
Triggering the proton transfer by H-bond network
Macernis M, Subkus J, Valkunas L et al.



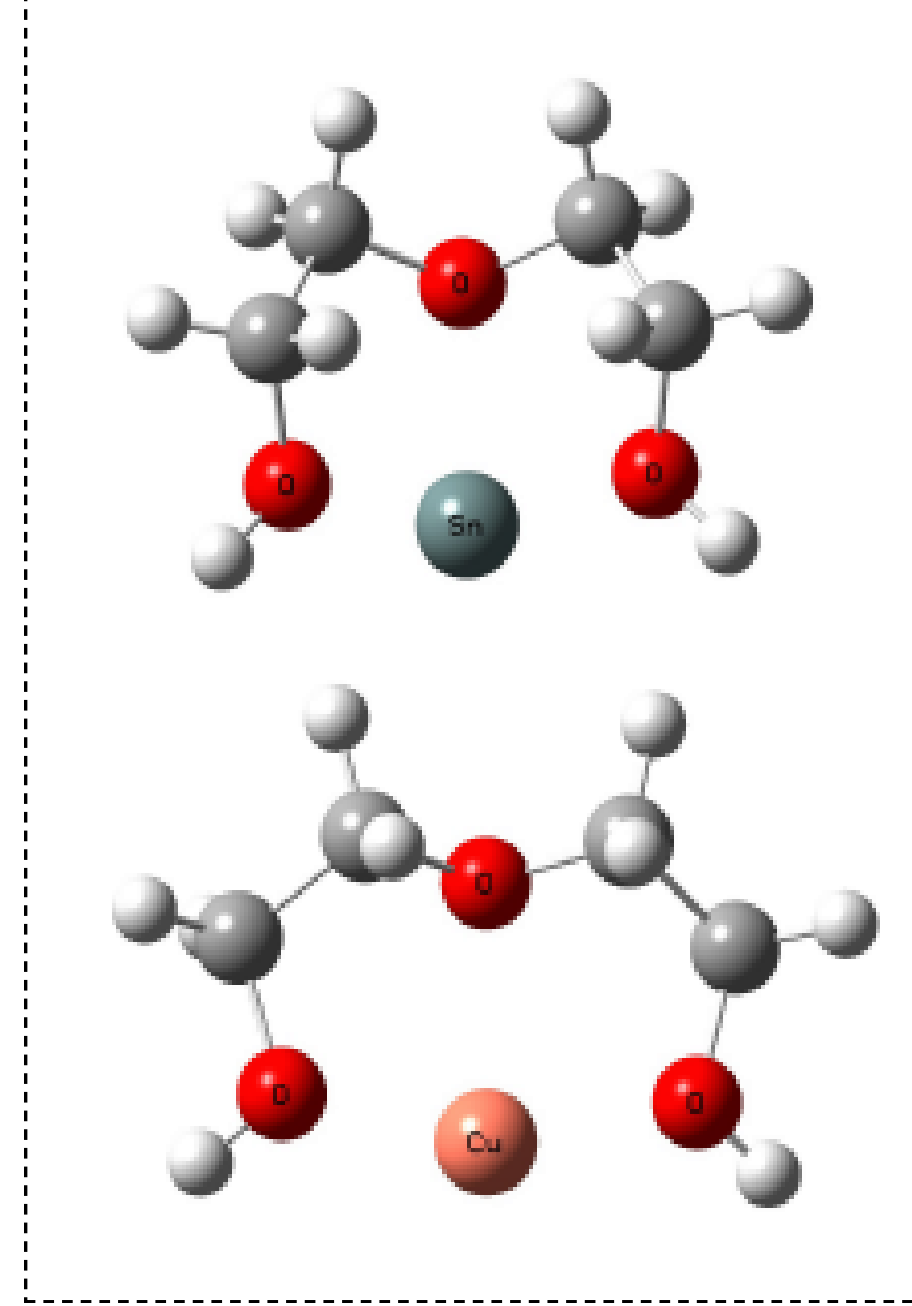
Exciton Band Structure in Bacterial Peripheral Light-Harvesting Complexes
Trinkunas G, Chmeliov J, Valkunas L et al.



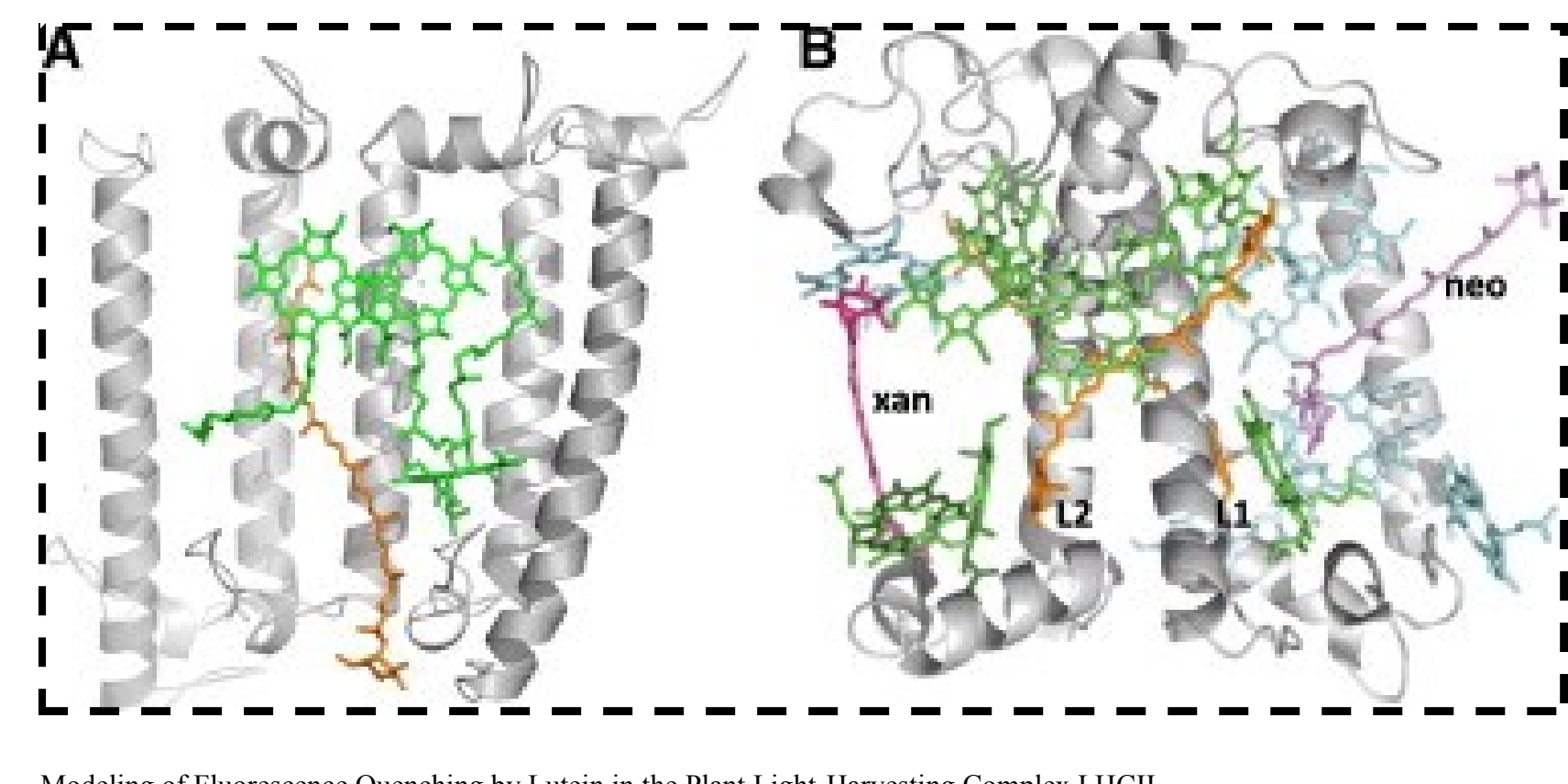
Optical and Electrical Noise Characteristics of Side Emitting LEDs
Glemža K et al.



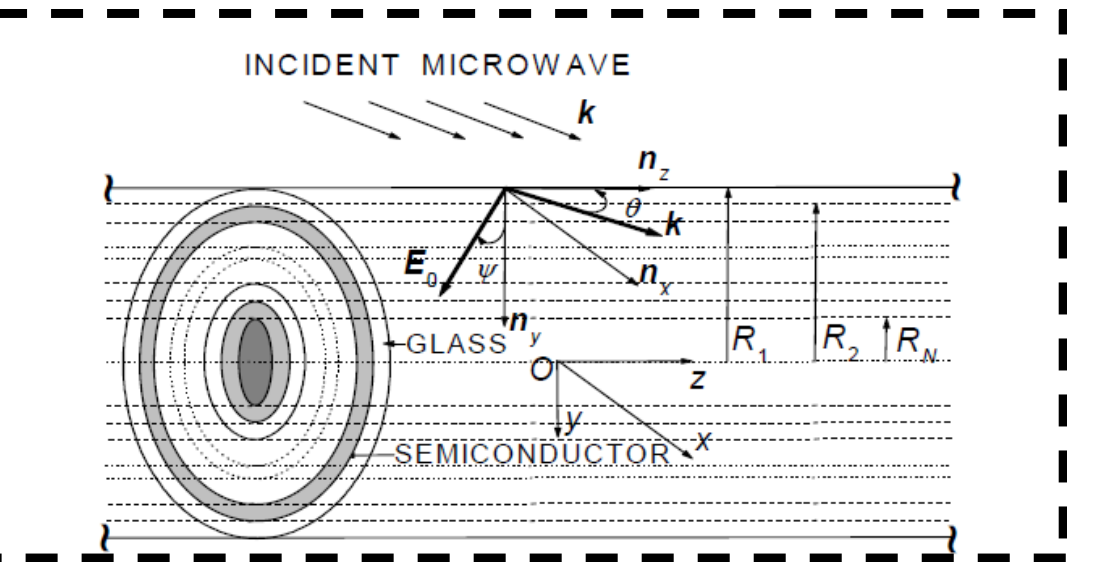
Quantum chemical studies of photochromic properties of benzoxazine compound
Tolantus S, Subkus J, Valkunas L et al.



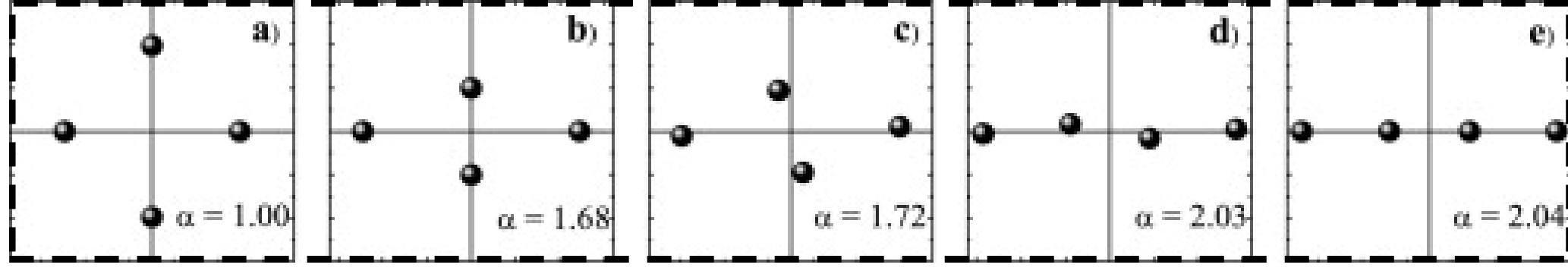
Macernis M, Subkus J, Valkunas L et al.



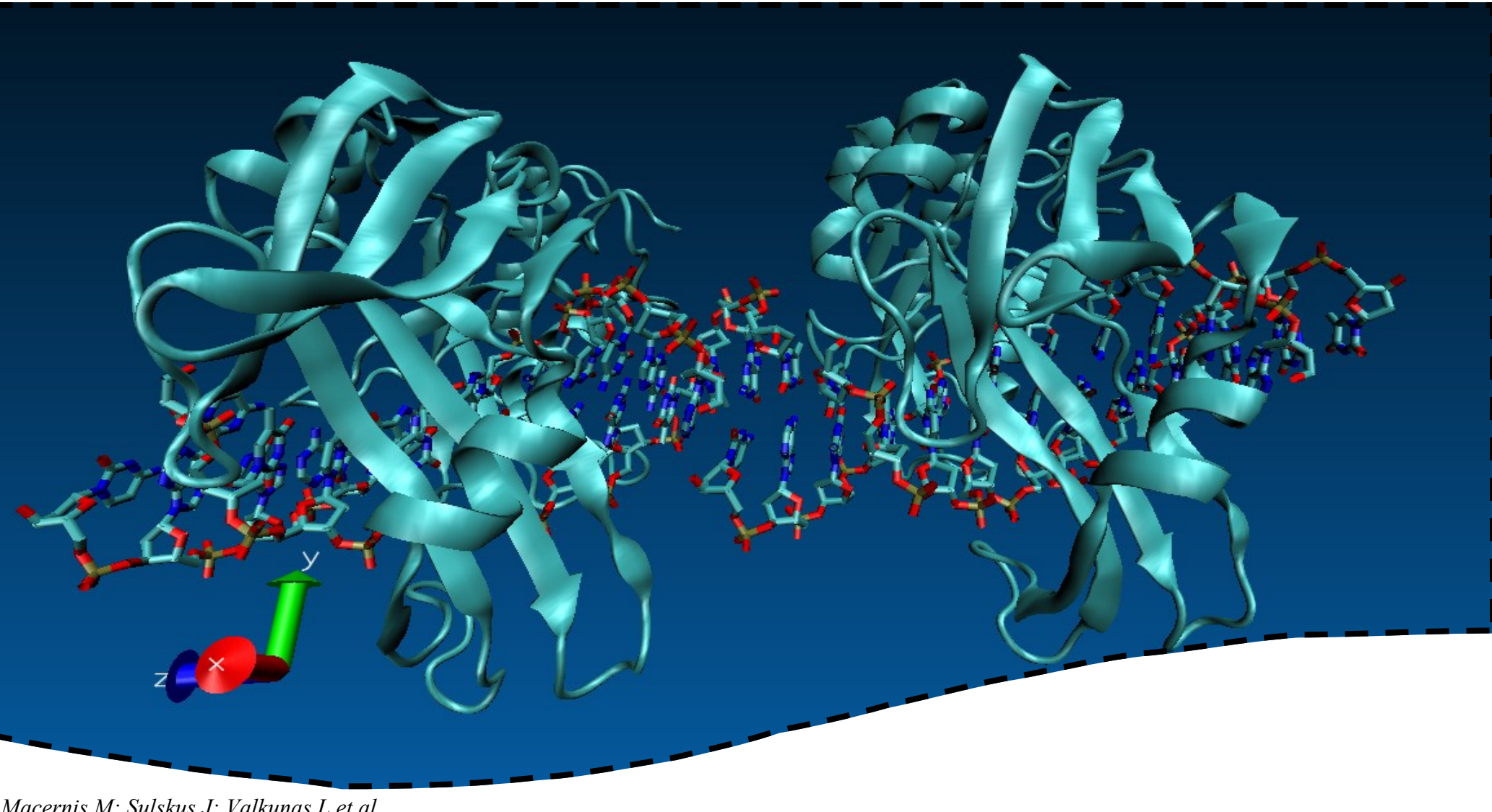
Modeling of Fluorescence Quenching by Lutcin in the Plant Light-Harvesting Complex LHCII
Chmeliov J, Macernis M, Subkus J, Valkunas L et al.



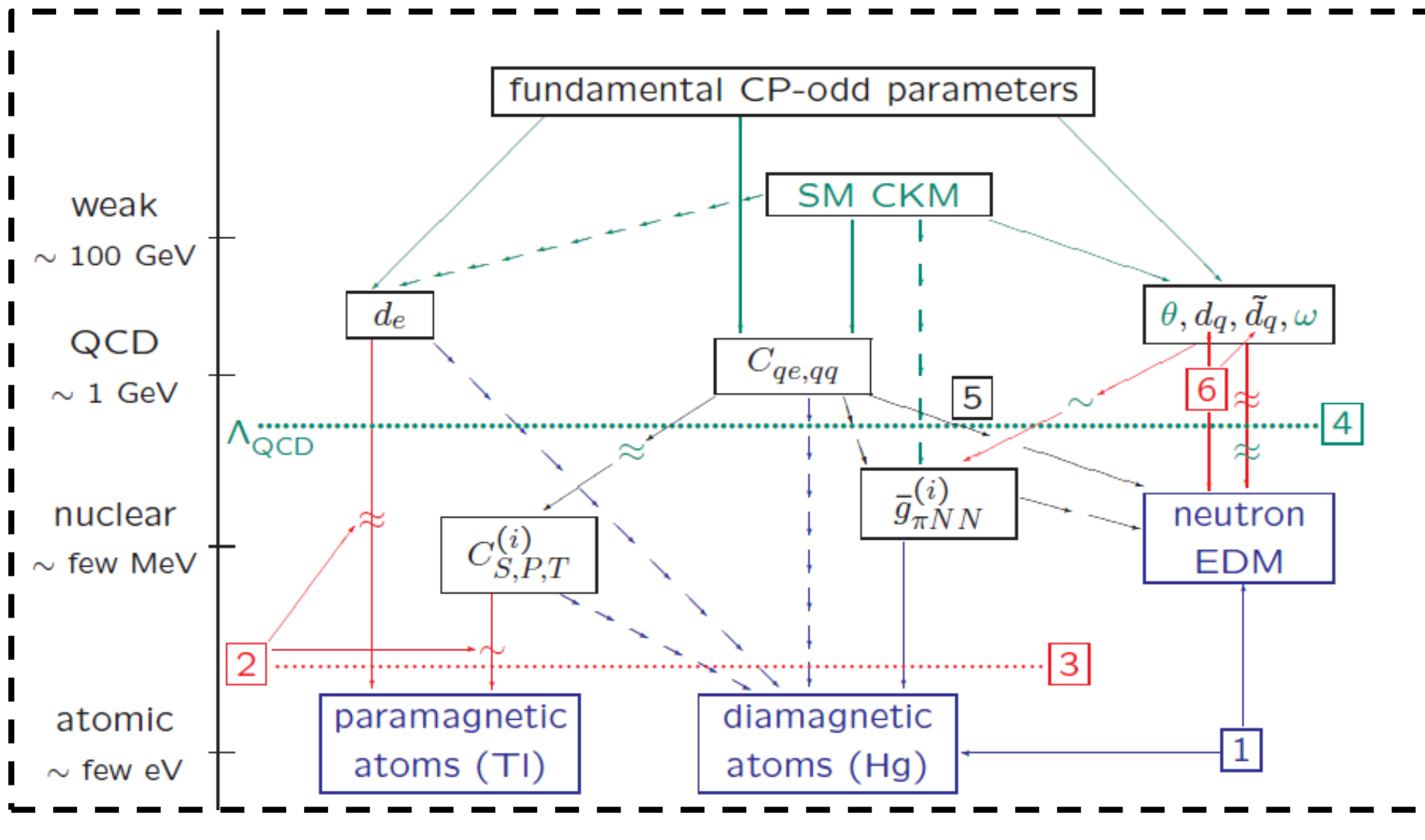
Microwave Diffraction Dependencies of a Conductor Cylinder Coated with Twelve Glass and Semiconductor Layers on the n-Si Specific Resistivity
Bucinskas J et al.



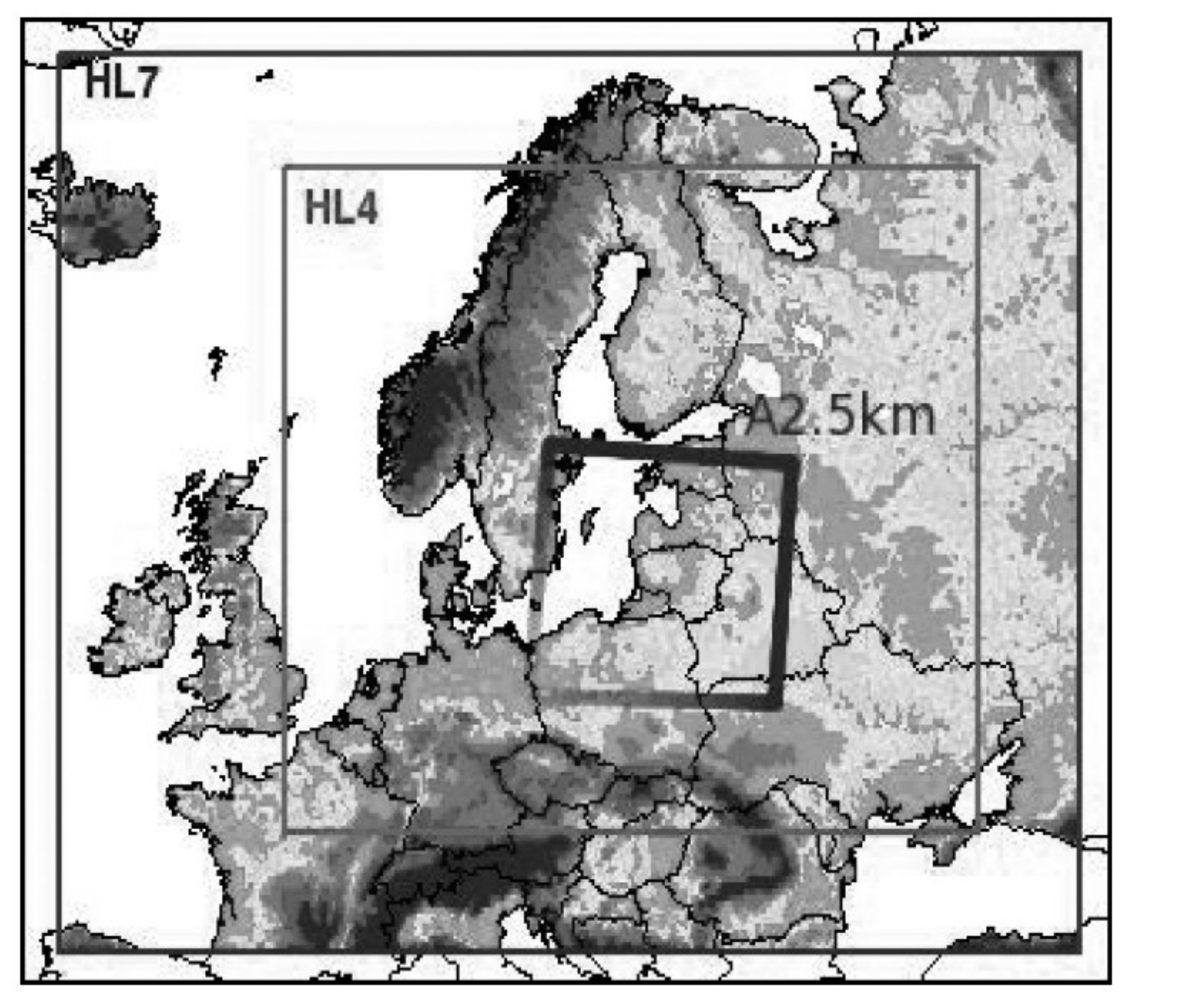
Numerical modeling of structural transitions in few-particle confined 2D systems
Rancova O, Anisimovs E, Varanavicius T



Macernis M, Subkus J, Valkunas L et al.



EDMs - signs of CP violation from physics beyond the standard model
Gaidišius T



Materiologinių sąlygų modeliavimas naujos kartos HARMONIE modeli, vertinant radioaktyvių medžiagų sklaidą avarijų metu
Subkus J, Mačernis M, et al.