

Dinamika nonlinier pada protein sekunder dalam pengaruh medan magnet abelian = Nonlinear dynamics of secondary protein folding under the influence of abelian magnetic field

Sipayung, Davit, author

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Abstrak

Diajukan sebuah model yang menjelaskan mekanisme pembentukan gerak pada protein berdasarkan interaksi-interaksi materi dengan pendekatan lagrangian. Sumber non-linier yang disuntikan direpresentasikan oleh lagrangian medan elektromagnetik. Pelipatan protein terjadi karena sumber nonlinier merambat melalui badan protein. Perambatan sumber non-linier melalui badan protein, dapat membuat transisi protein dari bentuk metastabil ke keadaan dasar.

.....A model to describe the mechanism of conformational dynamics in protein based on matter interactions using lagrangian approach is proposed. Nonlinear sources injected are represented by electromagnetic field lagrangian. Protein folding is caused by nonlinear source propagate through the protein backbone.

Propagation of nonlinear source through the backbone of the protein, can mediate the transition of a protein from metastable conformation to its ground state.