

ABSTRACT

BIFURCATION OF DOUBLING OF A PACEMAKERS PERIOD IN OXYHYDRATE GELS SYSTEMS

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During the microscopic researches of structure of yttrium oxyhydrate gels opaque crystallite nucleuses were revealed. These nucleuses have the similar form and possess from three up to seven concave sides, which are the result of interaction circular concentration pacemakers. The diameters of these concentration pacemakers while doubling form two rows. After irradiation in a magnetic field the third row of diameters is formed. It is characterized by the bigger values of diameters. This effect is interpreted from the point of view of the theory of chaos as occurrence of turbulence (complication of a motion) in the theory of dynamic systems, which is stated as a bifurcation of doubling of a period.

Key words: yttrium oxyhydrate, magnetic field, polymerization, bifurcation of doubling.

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