

## **Optical properties of gel oxyhydrates and gel oxyhydrate “noise”**

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### **Abstract**

The article dwells upon the alternations of the optical density in the gel oxyhydrate systems of d- and f-elements. Proven is the relation of these alternations to the Liesegang operator.

On the basis of the experimental data and calculations that are given in the present paper the conclusion is made on the effect of self-organization current in the magnetic field on the optical behavior of the oxyhydrate systems. Experimental method of cluster size evaluation in the disperse medium is brought into view.