

## **Handmade tracking of autokinesis**

A. I. Nazarov

Ph.D. in Psychology, Senior researcher,  
Associate professor of the Psychology Department  
at the International University of Nature, Society and Human «Dubna»  
[koval39@inbox.ru](mailto:koval39@inbox.ru)

Parameters of observed in experiment apparent movement (autokinesis) were registered at the time when subject experienced this illusion. Tracking illusory movement was carried out by means of two-dimensional sensor of hand control. At the same time the eye movements were registered. Experiments were conducted in three conditions: 1) tracking without feedback from sensor of hand control: luminous stimulus on the screen all the time was motionless; 2) tracking with negative feedback: stimulus copied the hand movements which compensate autokinetic illusion; 3) tracking with positive feedback: hand movement copied apparent movement of the stimulus. Parameters of autokinesis, movements of the hand and the eye in these conditions appeared to be different. In addition, the conflict between visual and real place of the stimulus had been experienced during superposition of real and illusory movements of stimulus (last two conditions). Reasons of this conflict were discussed in the article.

**Key words:** autokinesis, eye movements, hand movements.