*Mezhuyev Vitaliy.* **DEMO: the computer system for instructional modelling of physical processes and phenomena.**

In the paper the theoretical base for the development and use of physics’ training tools are considered. The main idea and result of the work is the definition of the modelling as an initial factor, which links logic of physical knowledge, psychological and pedagogical aspects of teaching and cognitive activity and possible ways of their realisation by means of computers technologies. The theoretical principles are disclosed on practical examples of using developed by the author computer systemfor instructional modelling of physical processes and phenomena DEMO.