

New Trends in High-Energy Physics



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Modern approaches in ultra-low background experiments at the LSM underground laboratory

The talk will be devoted to general approaches to search and investigation of rare processes. Real examples that will be considered in the talk are experiments with JINR (Dubna) participation conducting in the LSM deep underground laboratory. Main limitations of the experiments are connected with radioactive backgrounds. Modern nuclear physics methods allow significantly reduce the background level and thus to investigate processes with counting rate below unity per kilograms of matter per year.

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