

Low Light Level Ultra-Fast Sensor Applications and Needs

Presented by Razmick Mirzoyan  
Max-Planck-Institute for Physics  
Munich, Germany

Abstract

Low Level Light (LLL) ultra-fast sensors are widely used in science and in industry. Examples of scientific applications one can find, for example, in high energy physics experiments, in astronomy and astrophysics, in biology, in medicine. In industry the LLL sensors are used in medical instrumentation, in different distance measuring rangers, as bar code readers, in control units of different technological processes e.t.c.. The LLL sensors are improving with time and also the performance of based on them instruments is improving, they find wider applications. In my presentation I will try to concentrate on the comparison of different LLL sensors as well as I will try to clarify why it is necessary to improve the sensors.