

Dear Colleagues,

The main goal of experimental high-energy physics is to test and falsify different theory models, thereby constructing the consistent description of all observed phenomena. All these theoretical models are based on different symmetries that can be expected in the surrounding world. The new types of particles and interactions predicted in such models can be searched both directly and indirectly. Direct search can be performed when the experimental limitations make it possible to produce and/or detect these particles/interactions directly in the experiment. Indirect search makes it possible to “feel” these new inaccessible effects in the interactions of well-known particles. This Special Issue aims to discuss different experimental and phenomenological efforts regarding precise tests of currently recognized models as well as the search for new effects in order to extend our knowledge.