

Coherent control is a method of controlling dynamic processes by means of light. It is used, for example, in optics and atomic physics. Some processes, which are extremely important for the science, are very weak – it is hard to observe and measure them. In such cases, one can use coherent control: when there are two (or more) simultaneous interactions, one can magnify a weaker one and make it easier to observe. In our project we want to study a new and more efficient method of coherent control. We will use different kinds of light, which will interfere (superpose). The result of our project will be a development of an entirely new method of investigating fundamental physics phenomena.