

# **DETERMINATION OF THE BOUNDARY OF GRAVITON MASS FROM S2 STAR ORBIT AT THE ASTRONOMICAL OBSERVATORY**

In this paper we present the scientific researches that have been done at the Astronomical Observatory Belgrade, in cooperation with Vinča Institute of Nuclear Sciences. The research team is represented, and also the achieved results on the graviton mass are given. These researches are supported by Ministry of Education, Science and Technological Development of the Republic of Serbia.

**Key words:** General relativity, modified gravity, observed and simulated star orbits, particle physics, graviton mass