

# XXV International Baldin Seminar on High Energy Physics Problems "Relativistic Nuclear Physics and Quantum Chromodynamics"



XXV International Baldin Seminar  
on High Energy Physics Problems  
*Relativistic Nuclear Physics & Quantum Chromodynamics*

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## Neutrino physics: new results and prospects

*Monday, 18 September 2023 14:30 (40 minutes)*

Recent results, present status and futures perspectives in neutrino physics will be presented. In the study of neutrino oscillations an emphasis will be put on a search for CP violation and determination of the neutrino mass ordering. The results obtained in current long baseline accelerator experiments T2K and NOvA will be discussed. The brief overview and status of the next generation accelerator based experiments Hyper-Kamiokande (Japan) and DUNE (USA) will be given. New results obtained in the direct measurement of neutrino mass and the progress in a search for neutrinoless double beta decay will be overviewed. A part of the talk will be focused on searches for sterile neutrinos with an artificial neutrino source and in short baseline reactor and accelerator experiments. Finally neutrino parameters obtained in cosmology will be discussed.

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