Presentations of the new results and proposals in the field of nuclear physics by MLIT

1.

Digital technology map: detectors, accelerators, competencies

Anna Ilina

JINR has accumulated extensive experience in the development of detector and accelerator systems, related equipment and collaboration with industrial and scientific partners. However, the lack of a centralized knowledge base made it difficult to find information on existing technologies, competencies, and suppliers, limiting the exchange of experience between the departments. To address this issue, a web service was developed and subsequently included in the services of the JINR Digital EcoSystem. It enables the registration and contextual search of data on the Institute's equipment, materials, technologies, and accumulated competencies. The service also provides data visualization for JINR employees and integrates information from different scientific groups and departments. The project was created by young researchers, IT specialists, and scientists.

2.

Collection and systematization of scientific publications for the JINR digital repository

Andrey Kondratyev

The relevance of digital repositories published as information systems that ensure the availability of scientific research results cannot be overestimated today. The development and modernization of their functionality for the automated collection of bibliographic metadata is relevant. At JINR, the lack of institutional repository structures allows finding solutions to this problem. Effective access to up-to-date information on employees of scientific publications related to JINR is very important for assessing the intellectual potential of the Institute. Automated systems allow reducing duplication and manual data entry in publications, limiting access to scientific information and increasing the efficiency of its analysis. A modern repository integrates data from verified data sources into a single system, provides long-term storage and convenient access to the Institute's information assets.
