

# **DSpace** software platform for digital repository of publications

I. Filozova, G. Shestakova, A. Kondratyev, A. Bondyakov, **T. Zaikina**, I. Nekrasova

The XXVII International Scientific Conference of Young Scientists and Specialists (AYSS-2023)

30 October - 3 November 2023

Dubna, JINR

# Institutional repository



Containing articles, preprints and other materials reflecting and facilitating JINR research activities.



Store and provide effective access to JINR information resources.



Make scientific results available to all scientific and educational community.

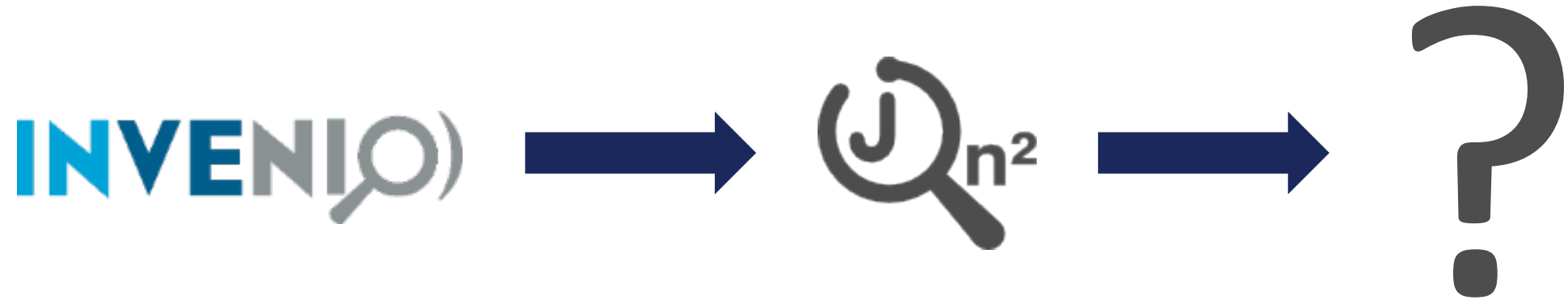


To estimate the efficiency of the JINR scientific activity.

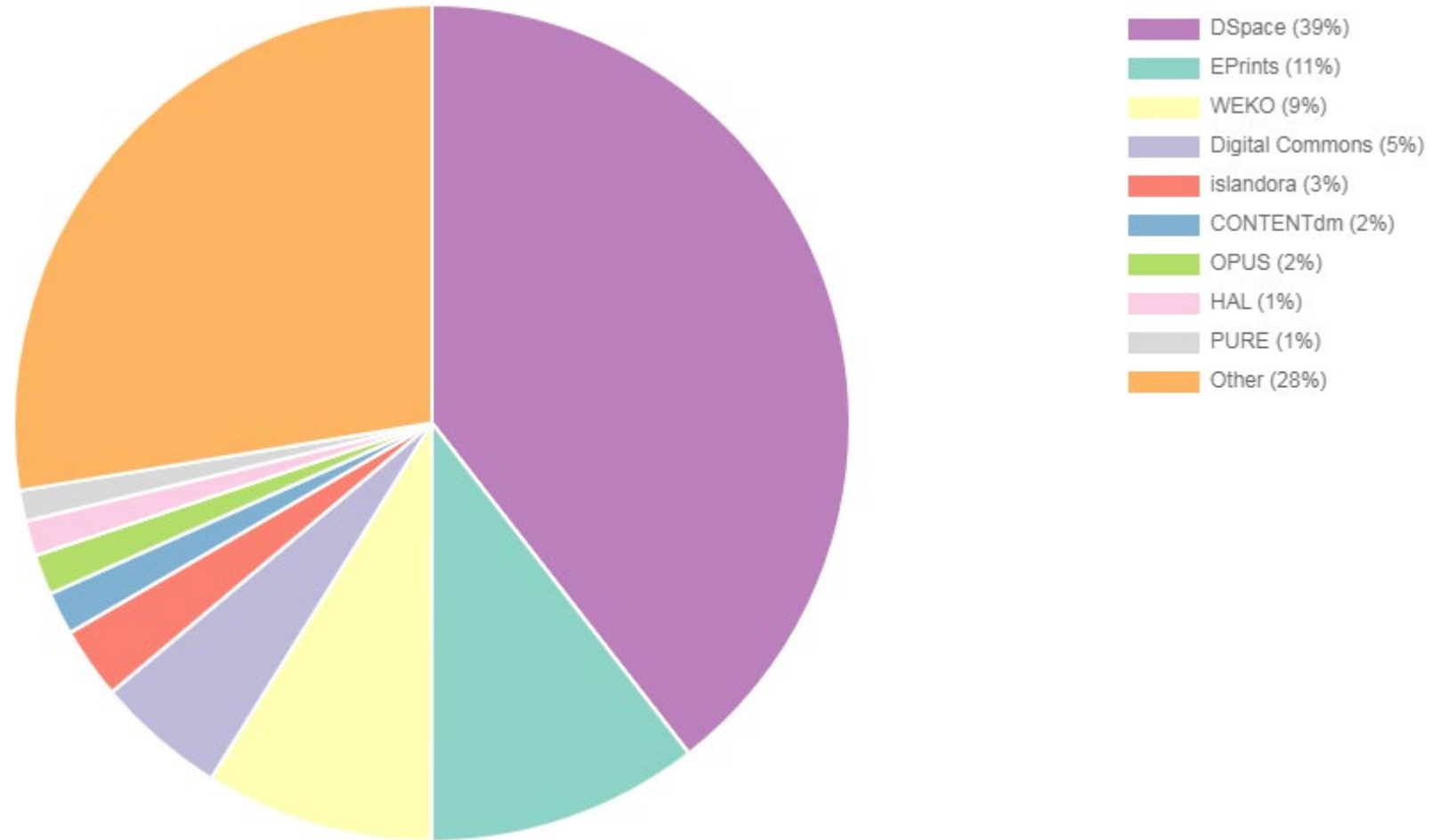


Part of scientific communication.

# History of JINR Publications Repository



# Software Platform Overview



# JINR Publications Repository Platforms



- ✓ Distributed system
- ✓ Good scalability
- ✓ Flexible backup system
- ✓ Flexible authorization system
- ✓ Good security
- ✓ Powerful and customizable UI
- ✓ Big community

# DSPACE 7 Technology Stack

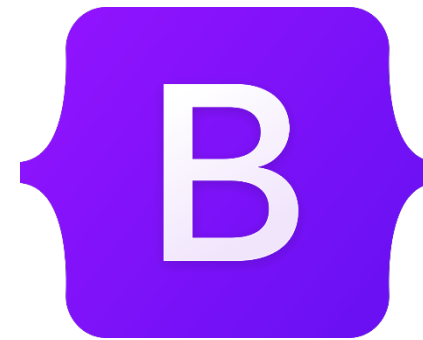
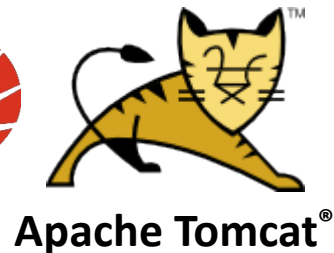
Backend  
Server API



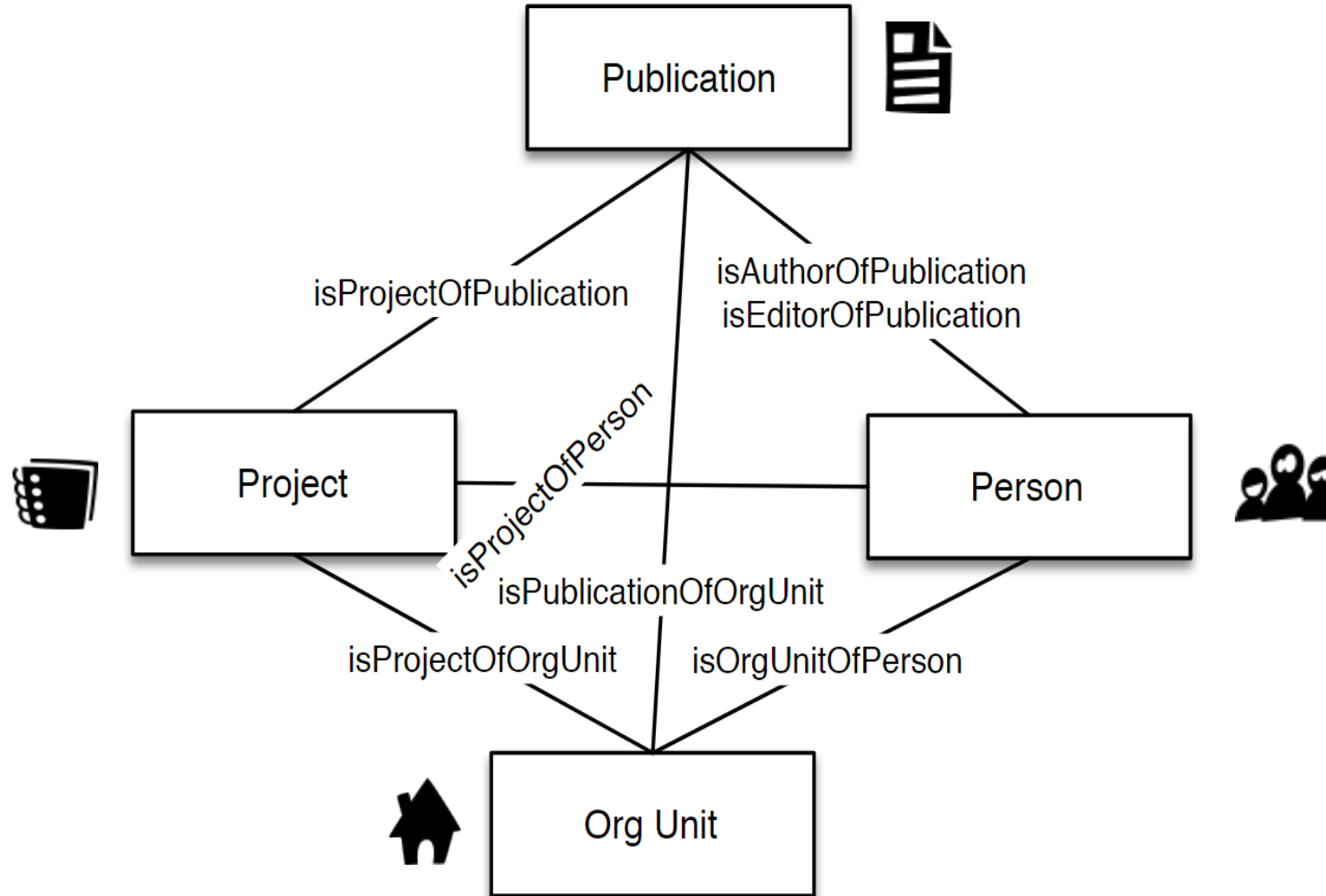
Frontend  
User Interface



PostgreSQL



# Research Entities in DSpace 7



# JINR Institutional Repository on the DSpace

- Easily login via SSO
- Search and browse publications by authors, organizational units, topics, projects, and more...
- Submit your own publications
- Harvesting of publications from external sources

Publications

Communities & Collections All of DSpace ▾ Statistics

Log In ▾  
login via SSO

## JINR Repository

Repository for Publications and Scientific output of JINR employees

- Easily login via SSO
- Search and browse publications by authors, organizational units, topics, projects, and more.
- Submit your own publications

If any question, [contact us](#).

Search the repository ... Search

### Communities in repository

Select a community to browse its collections.

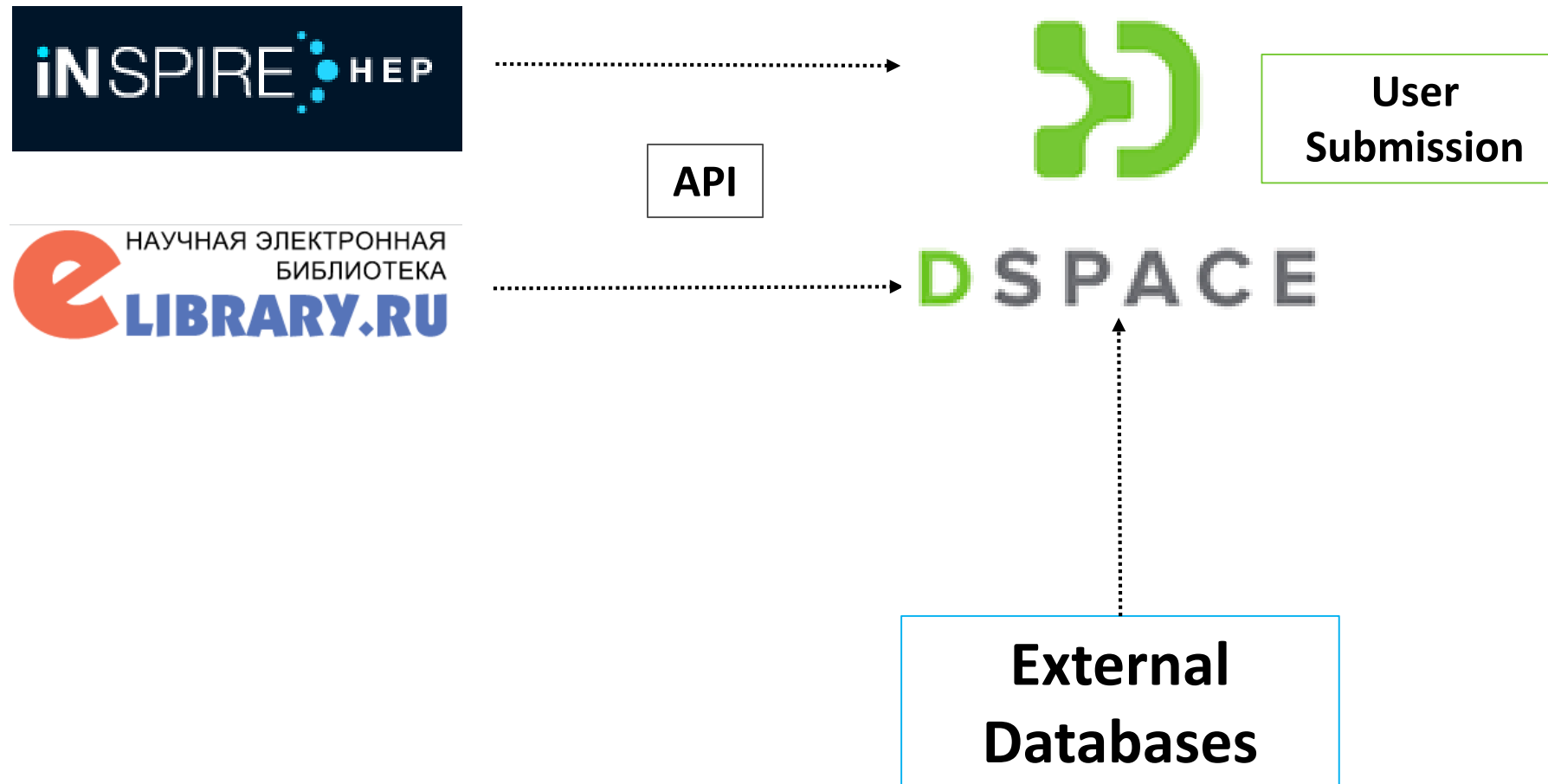
Now showing 1 - 2 of 2

JINR Harvesting of publications from external sources

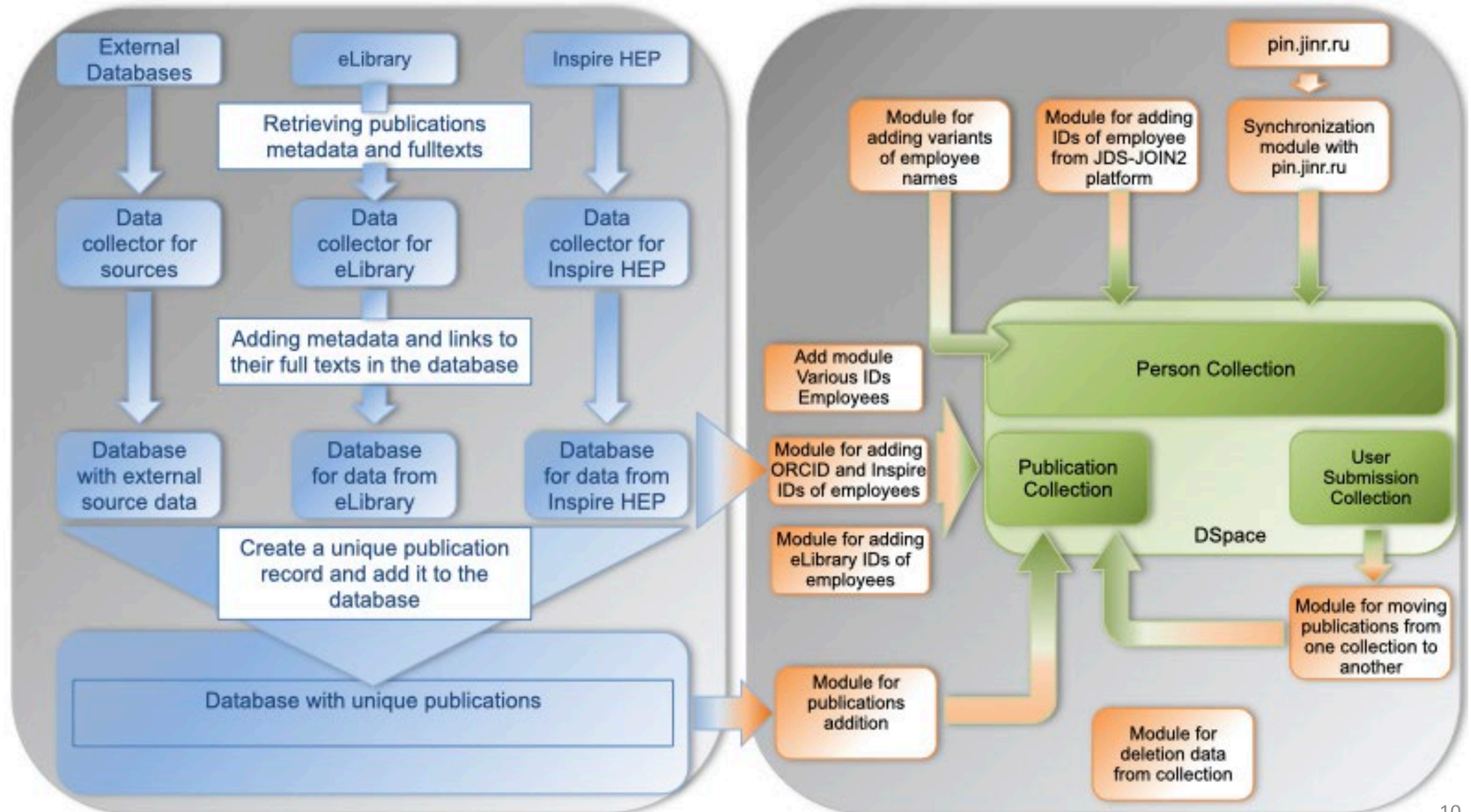
User Submissions Submit your own publications



# Sources for JINR Repository

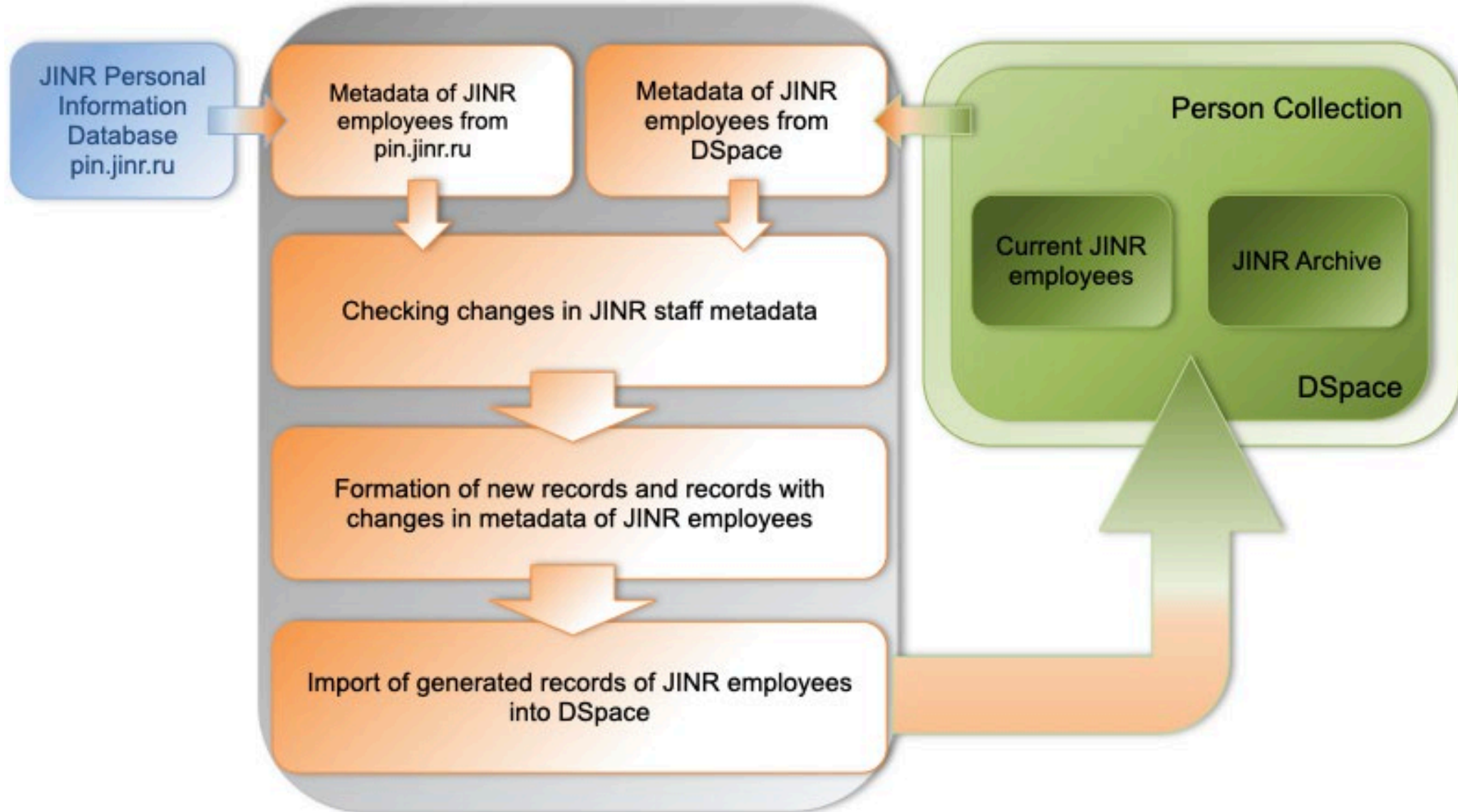


# C++ modules for DSpace 7 (part 1)




General scheme of interaction between C++ modules and DSpace 7 by Kondratyev A.

# C++ modules for DSpace 7 (part 2)



# User Submissions - Import


 Publications 🔍 🌐 👤

[Communities & Collections](#) [All of DSpace](#) ▾

## Import a publication from an external source

### Search Results

Now showing 1 - 1 of 1

 CURATION OF BIBLIOGRAPHIC METADATA OF THE INSTITUTIONAL REPOSITORY ON THE INVENIO-JOIN<sup>2</sup> PLATFORM

[← Back to MyDSpace](#)

# User Submissions - Manual

Collection MLIT Publications Add more +

Describe ! ^

Type/ Тип публикации \*

Select the type(s) of content of the paper. For the correct structure of submission fields!

+ Add more

Authors/ Авторы

🔍 🗑️

Author's name (Family name, Given names)

+ Add more

Title/ Заголовок \*

Main title of the item

# Editorial check of publications

## Workflow tasks

Now showing 1 - 1 of 1

Validation

Publication

File Restrictions Test

(2023) Zaikina, Tatiana

No Abstract

Submitter : **Tatiana Zaikina**

Approve

Reject

Edit

View

Return to pool

Reason

×

Please enter your reason for rejecting the submission into the box below, indicating whether the submitter may fix a problem and resubmit.

Describe the reason of reject

Reject item



# Publication View

Publication:  
Prototype of the Russian Scientific Data Lake



## Organizational Units

### Organizational Unit

Лаборатория информационных технологий им. М.Г.Мещерякова  
Основные направления деятельности: Лаборатории информационных технологий (ЛИТ) связаны с обеспечением сетевыми, вычислительными и информационными ресурсами  
▼ Show more

## Abstract

The High Luminosity phase of the LHC, which aims for a tenfold increase in the luminosity of proton-proton collisions is expected to start operation in eight years. An unprecedented scientific data volume at the multi-exabyte scale will be delivered to particle physics experiments at CERN. This amount of data has to be stored and the corresponding technology must ensure fast and reliable data delivery for processing by the scientific community all over the world. The present LHC computing model will not be able to provide the required infrastructure growth even taking into account the expected hardware evolution. To address this challenge the Data Lake R&D project has been launched by the DOMA community in the fall of 2019. State-of-the-art data handling technologies are under active development, and their current status for the Russian Scientific Data Lake prototype is presented here.

## Collections

Publication

Full item page

## Date

2021

## Authors

Alekseev, Aleksandr  
Espinal, Xavier  
Jezequel, Stephane  
Kiryanov, Andrey  
Klimentov, Alexei  
Korchuganova, Tatiana  
Mitsyn, Valeri  
Oleynik, Danila  
Smirnov, Alexander  
Smirnov, Sergei  
Zarochentsev, Andrey

Мицын, Mitsyn, Валерий Валентинович,  
Valeriy  
Олейник, Oleynik, Данила Анатольевич,  
Danila

Hide last 3

Bibliographic information

Relationship link with  
OrgUnits

Relationship link with  
authors

Relationship link with  
Themes/Projects

## DOI

10.1051/epjconf/202125102031

## Journal Title

The European physical journal / Web of  
Conferences

## Journal ISSN

2100-014X  
2101-6275

## Volume

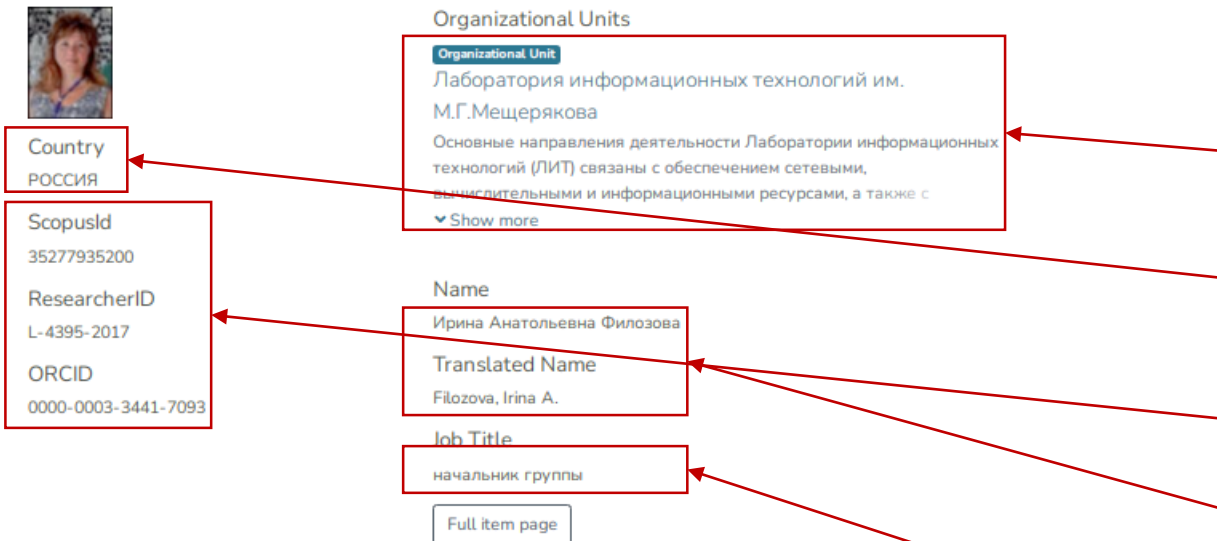
251

## Pages

02031

Person:  
Филозова, Ирина Анатольевна

# Person View



The profile card displays the following information:

- Country:** РОССИЯ
- ScopusId:** 35277935200
- ResearcherID:** L-4395-2017
- ORCID:** 0000-0003-3441-7093
- Organizational Units:** Лаборатория информационных технологий им. М.Г.Мещерякова. Основные направления деятельности Лаборатории информационных технологий (ЛИТ) связаны с обеспечением сетевыми, вычислительными и информационными ресурсами, а также с
- Name:** Ирина Анатольевна Филозова
- Translated Name:** Filozova, Irina A.
- Job Title:** начальник группы

Relationship link with OrgUnits

Country

Author's identifiers

Name Variants

Job Title

List of Publications

All of DSpace Search the repository ... Search

## Filters

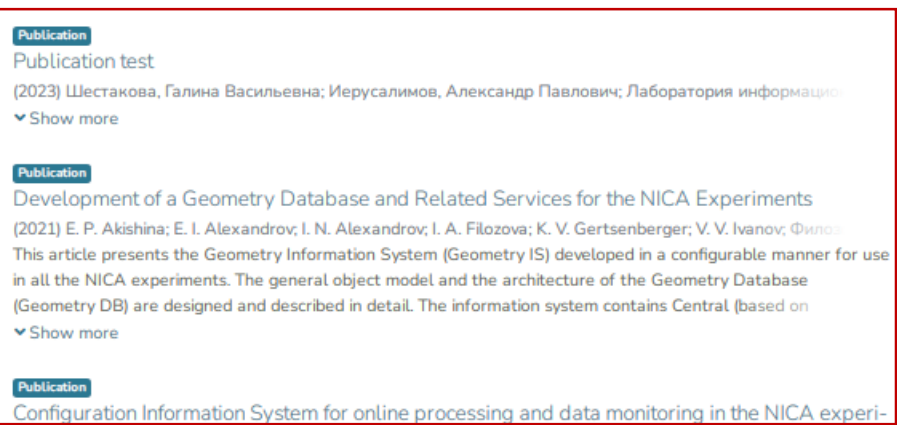
- Author +
- Date +
- Has files +
- Item Type +
- Reset filters

## Settings

Sort By

## Search Results

Now showing 1 - 5 of 5



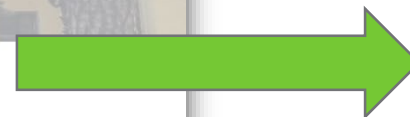
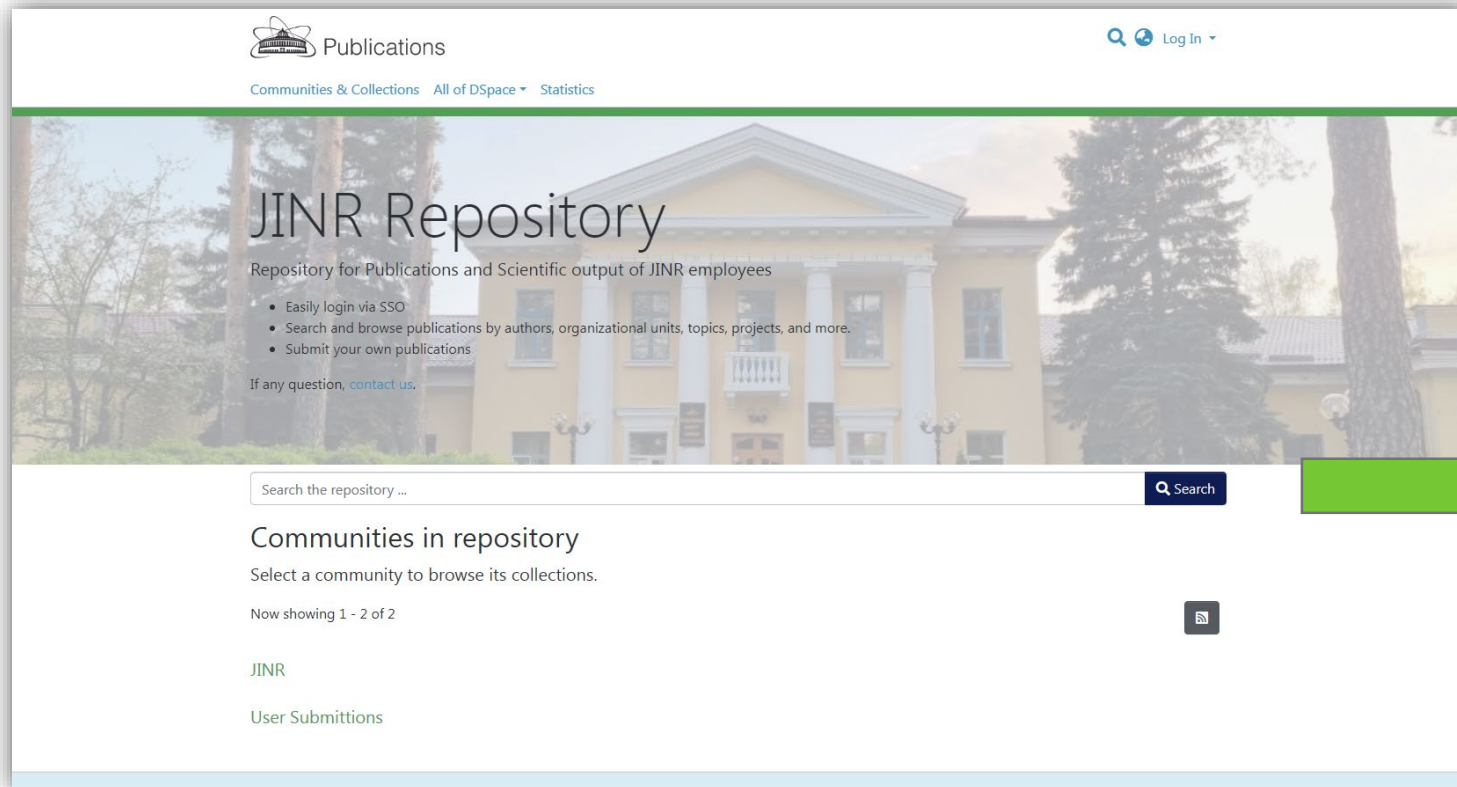
The list of publications includes:

- Publication test** (2023) Шестакова, Галина Васильевна; Иерусалимов, Александр Павлович; Лаборатория информации
- Development of a Geometry Database and Related Services for the NICA Experiments** (2021) E. P. Akishina; E. I. Alexandrov; I. N. Alexandrov; I. A. Filozova; K. V. Gertsenberger; V. V. Ivanov; Филозова
- Configuration Information System for online processing and data monitoring in the NICA experi-**




# Future Plans

## Institutional Repository in frame of JINR Digital Eco System



# Thank you for attention!



The logo is a dark blue rectangle divided into two vertical sections by a thin white line. The left section contains two logos: the top one is the JINR logo with the text 'Joint Institute for Nuclear Research' below it, and the bottom one is the JINR Association of Young Scientists and Specialists logo with its text below. The right section features a stylized portrait of Bruno Pontecorvo in a suit and tie, with the text 'Devoted to the 110<sup>th</sup> anniversary of Bruno Pontecorvo' below it. At the bottom of the rectangle, the acronym 'AYSS' is written in large, white, serif capital letters. Below 'AYSS', the text 'The XXVII International Scientific Conference of Young Scientists and Specialists' is written in a smaller white font, followed by the year '2023' in a large, white, serif font.

Joint Institute for Nuclear Research

JINR Association of Young Scientists and Specialists

Devoted to the 110<sup>th</sup> anniversary of Bruno Pontecorvo

**AYSS**  
The XXVII International Scientific Conference of Young Scientists and Specialists **2023**