

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

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June 4 -11

# Institutional repository



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



Store and provide effective access to JINR information resources.



Make scientific results available to all scientific and educational community.

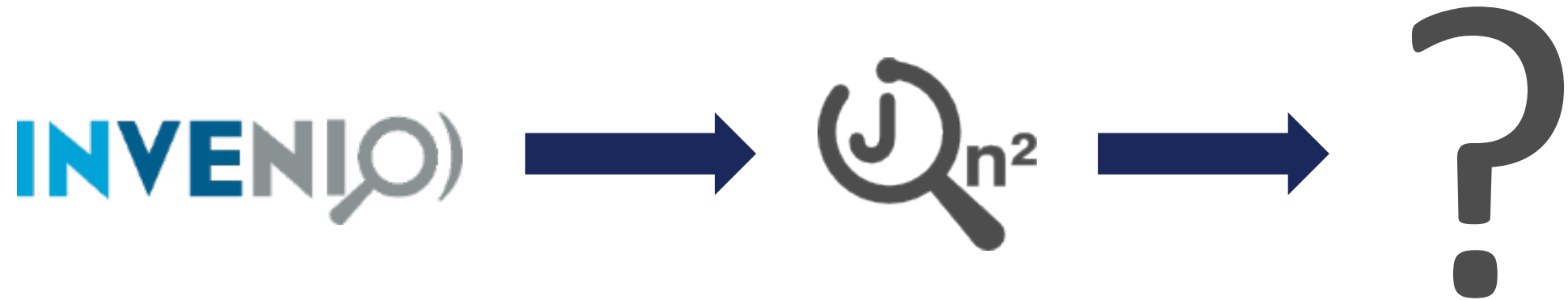


To estimate the efficiency of the JINR scientific activity.

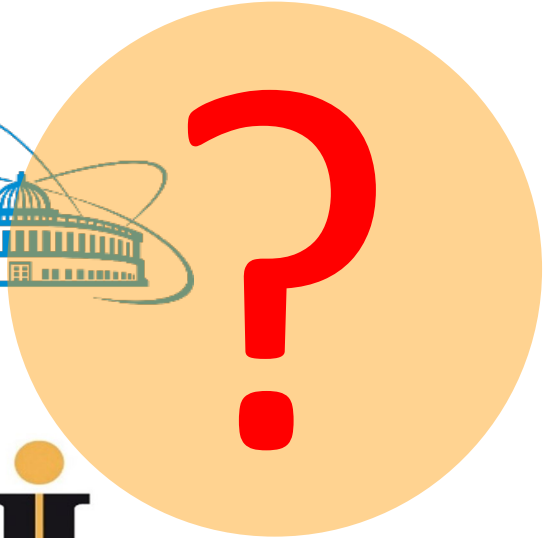


Part of scientific communication.

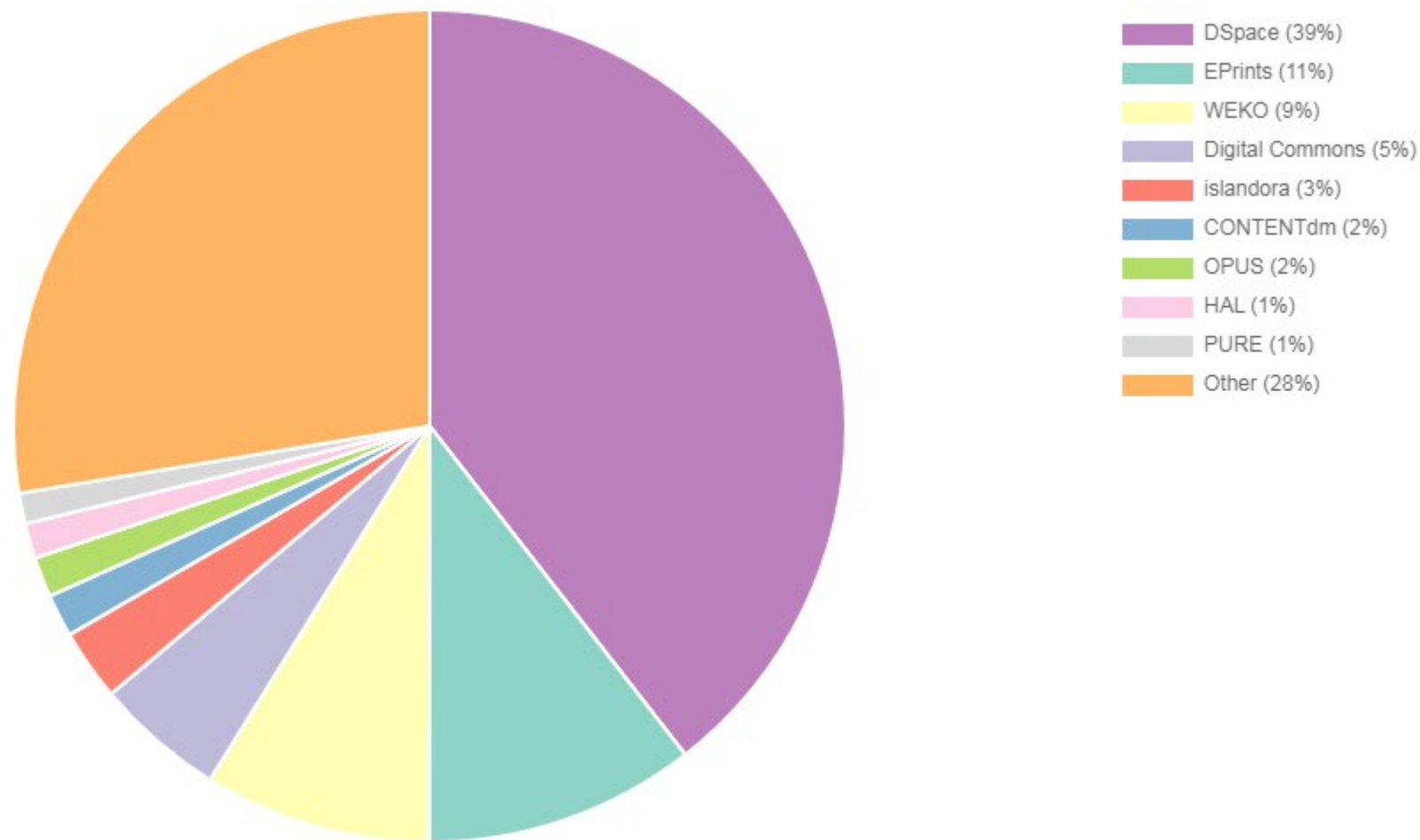
# JINR Publications Repository



# JOIN<sup>2</sup> Project Partners



# Software Platform Overview



# Candidates for JINR Publications Repository

Characteristic	JDS-JOIN2 inside project	JDS-JOIN2 outside project	DSpace 7.4	INVENIO 3
Access policy management	+	+	+	+
Data import from popular identification systems: DOI, ISBN, identifiers arXiv, Medline, PubMed, INSPIRE	+	+/-	+	-
Multi-criteria search and viewing of digital resources of the repository by metadata and including full text	+	+	+	+
Collaboration authors entry (1000 or more)	+	+	?	+
Automatic duplicate tracking	+	+	?	?
Storage of OPEN ACCESS document	+	+	+	+
Control of entered Information	semi- automatic	semi- automatic	?	?
Open Source	+	+	+	+
Ready for implementation	+	+	+/-	-
Support	+	-	Big community	-
Further development	+	-	+	?
PIN integration	+	+	Looks promising	?
Updating vocabularies of persons and departments	+	+	+	?
Documentation	+/-	+/-	+	+/-
Modern engine	-	-	+	?
Good scalability	-	-	+	?



# JINR Publications Repository Platforms



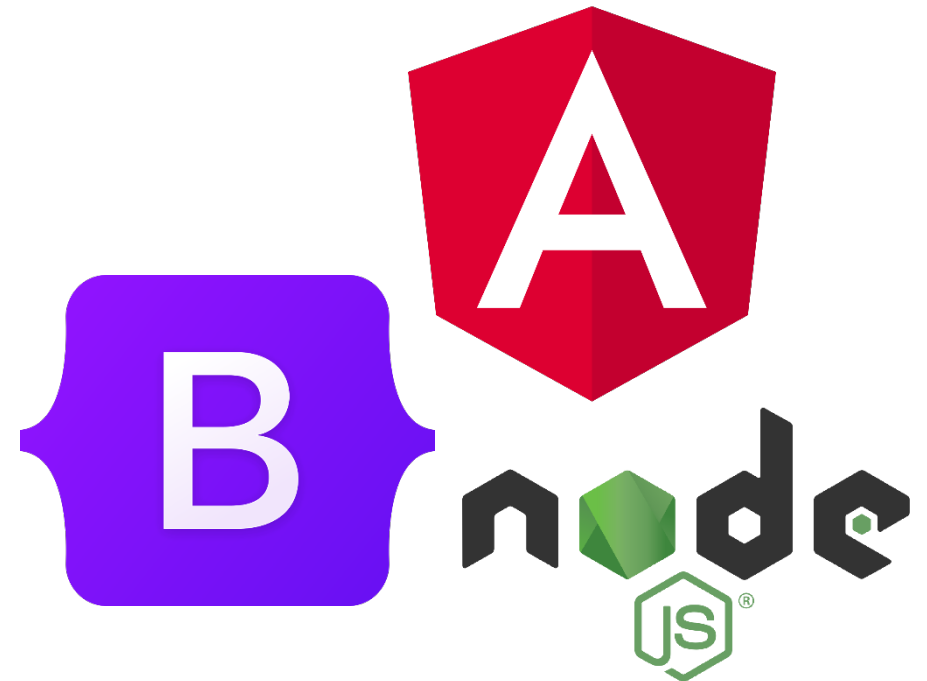
- ✓ Distributed system
- ✓ Good scalability
- ✓ Flexible backup system
- ✓ Flexible authorization system
- ✓ Good security
- ✓ Powerful and customizable UI
- ✓ Big community

# DSPACE 7.4 Technology Stack

Backend  
Server API



Frontend  
User Interface





# 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.

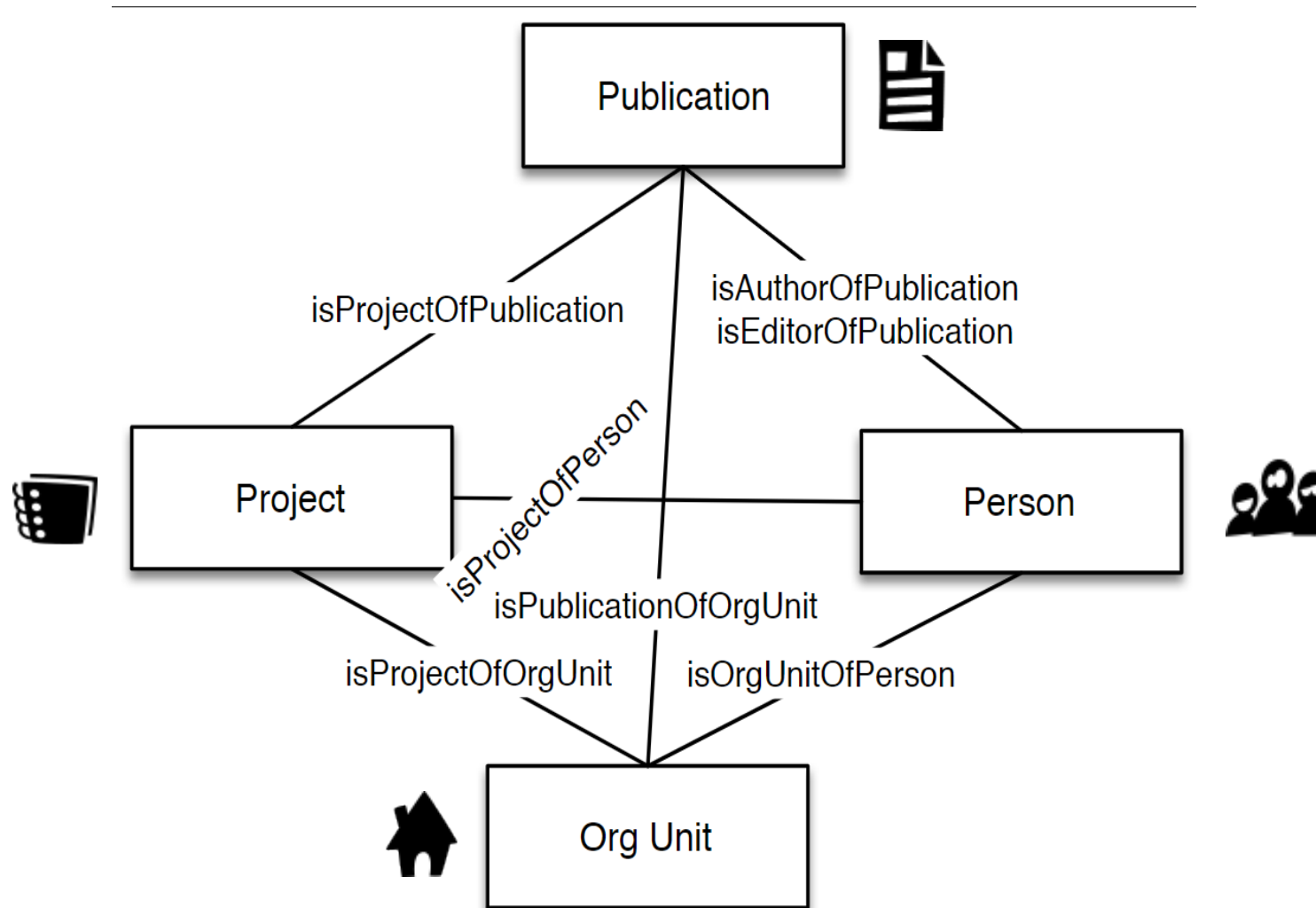
Now showing 1 - 2 of 2

JINR Harvesting of publications from external sources

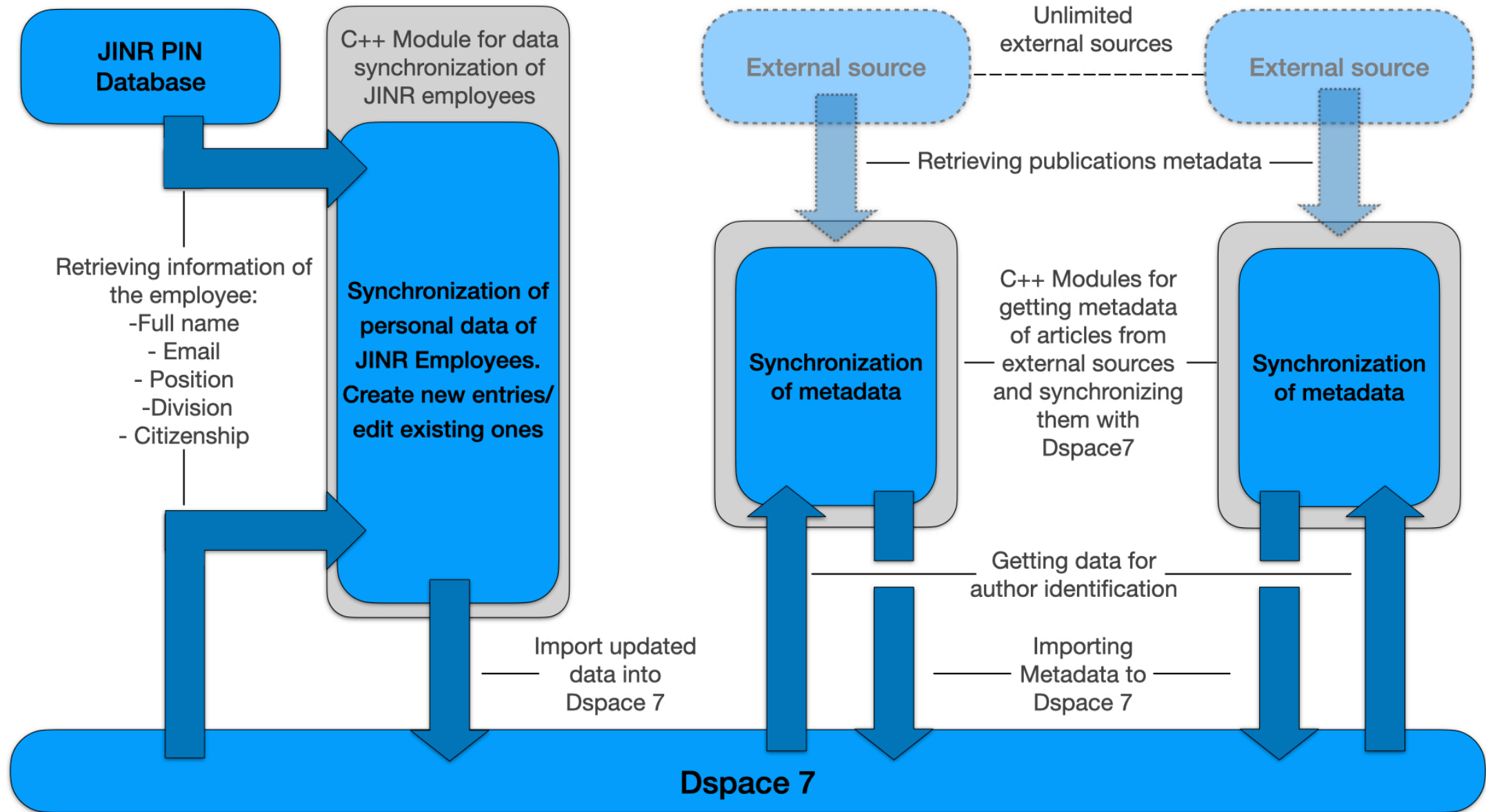
User Submissions Submit your own publications

9

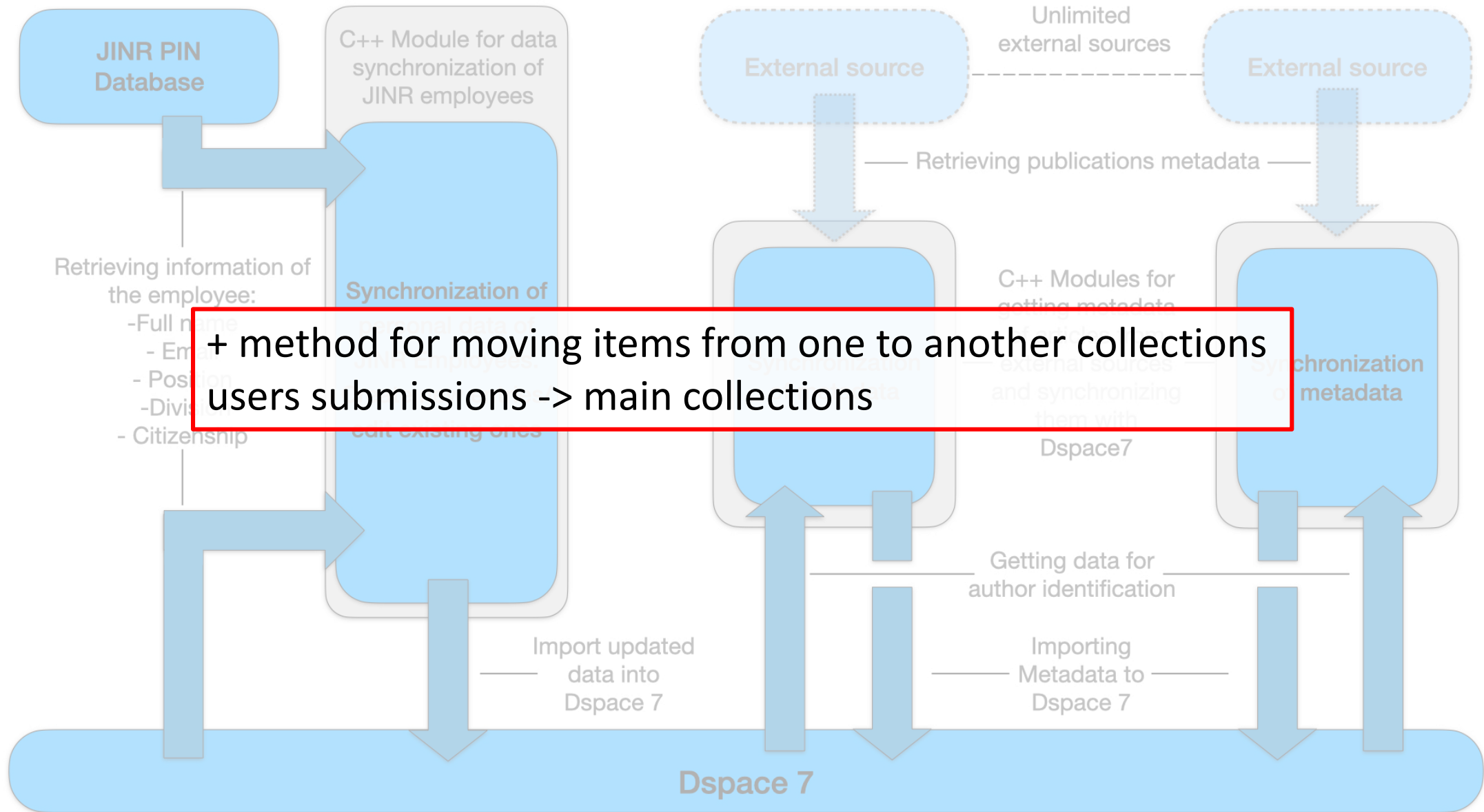
# Research Entities in DSpace 7



# C++ modules for DSpace 7

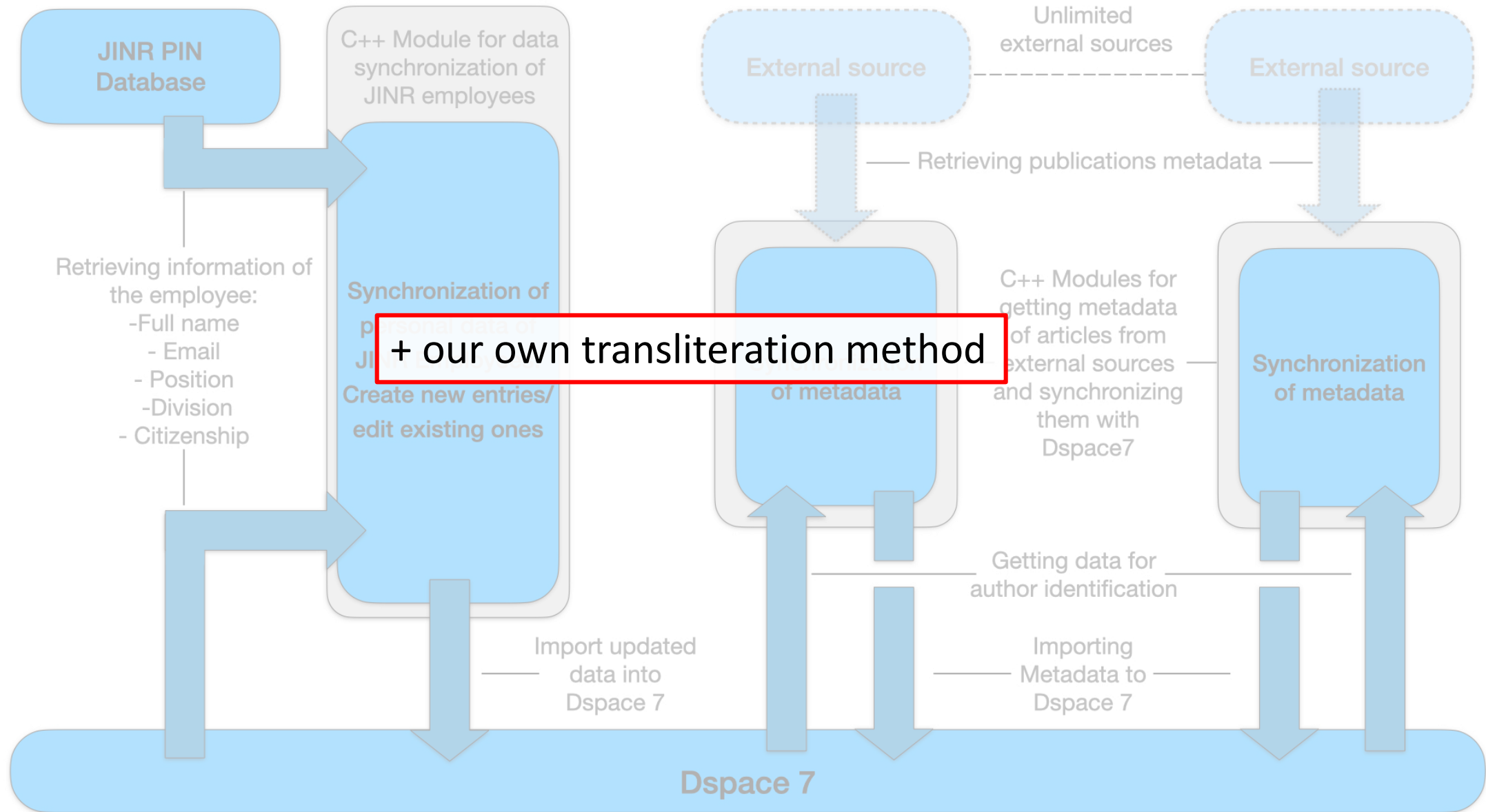


# C++ modules for DSpace 7



+ method for moving items from one to another collections users submissions -> main collections

# C++ modules for DSpace 7



# 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  
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## 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



Country  
РОССИЯ

ScopusId  
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ResearcherID  
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## 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, а также с

## Name

Ирина Анатольевна Филозова

## Translated Name

Filozova, Irina A.

## Job Title

начальник группы

[Full item page](#)

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

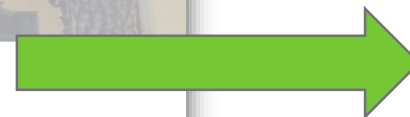
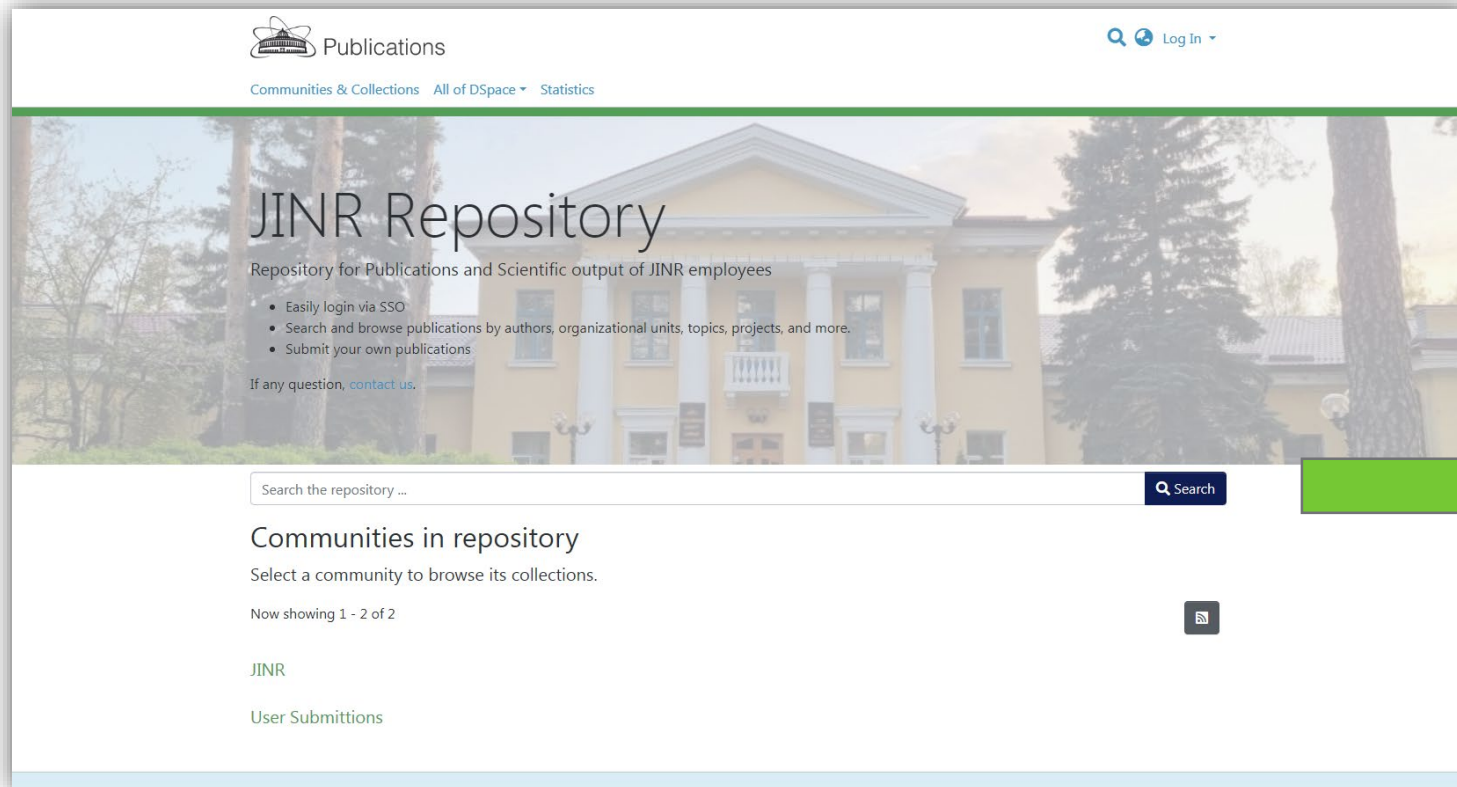
## Search Results

Now showing 1 - 5 of 5

- Publication**  
Publication test  
(2023) Шестакова, Галина Васильевна; Иерусалимов, Александр Павлович; Лаборатория информацио  
▼ Show more
- Publication**  
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; Фило  
This article presents the Geometry Information System (Geometry IS) developed in a configurable manner for use  
in all the NICA experiments. The general object model and the architecture of the Geometry Database  
(Geometry DB) are designed and described in detail. The information system contains Central (based on  
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- Publication**  
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!

