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05-6-1118

Информационно-вычислительная инфраструктура ОИЯИ

Information and Computing Infrastructure of JINR

Coordinator Korenkov, Vladimir
Grant period 2014 - 2023
Funding body Joint Institute for Nuclear Research
Categories Theme
Identifier G:(Ru-JINR)PTP-05-6-1118

The list of all publications made under the support of this theme is shown on the PTP page

↑ Networking, Computing, Computational Physics (05) ↑

Кореньков, Владимир Васильевич

Korenkov, Vladimir Vasilyevich

Также: Koren'kov, V. V.; Korenkov, V. V.; V. V. Korenkov; Vladimir Korenkov; Vladimir Vasilyevich Korenkov; В. В. Кореньков; Владимир Васильевич Кореньков; Владимир Кореньков; Кореньков, В. В.

Institutes

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PUBLICATIONS IN PRINT

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Book

[Korenkov, V. V.*](#); [Filozova, I. A.](#) (Corresponding author)*; [Ivantsova, O. V.*](#)

[Технологии баз данных](#)

Москва : КУРС 176 pp. (2020)


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Proceedings

[Korenkov, V. V.*](#); [Dolbilov, A. A.*](#); [Mitsyn, V. V.*](#); [Kashunin, I. I.*](#); [Kutovskiy, N. N.*](#); [Podgainy, D. V.*](#); [Streltsova, O. O.*](#); [Strizh, I. I.](#) (Corresponding author)*; [Trofimov, V. V.*](#); [Zrelov, P. P.*](#)

[The JINR distributed computing environment](#)

23rd International Conference on Computing in High Energy and Nuclear Physics (CHEP 2018), Sofia, Bulgaria, 9 Jul 2018 - 13 Jul 2018

[Les Ulis : EDP Sciences](#) (2019) [[10.1051/epjconf/201921403009](#)] 

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Journal Article

[Belov, S. D.*](#); [Kadochnikov, I. S.*](#); [Korenkov, V. V.*](#); [Matveev, M. A.*](#); [Podgainy, D. V.*](#); [Priakhina, D. I.*](#); [Semenov, R. N.*](#);

Publication

Development of a Geometry Database and Related Services for the NICA Experiments

Akishina, E. P.* ; Aleksandrov, E. I. (Corresponding author)* ; Alexandrov, I. N.* ; Filozova, I. A.* ; Gertsenberger, K. V.* ; Ivanov, V. V.*

2021

Springer Science + Business Media Heidelberg [u.a.]

Physics of particles and nuclei 52(4), 842 - 846 (2021) [[10.1134/S1063779621040031](https://doi.org/10.1134/S1063779621040031)]



Abstract: 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 PostgreSQL) and Local (SQLite replica) Geometry Databases. The Central DB is accessible through the Apache Web server and ensures all the functionality for geometry manipulation. The Local Database as part of the ROOT-based frameworks of the NICA experiments is used mostly for loading detector geometries in simulation, reconstruction and physics analysis tasks. Common application programming interfaces and a Web interface are developed. The first one is implemented as a set of user macros with necessary functions, the Web service provides a graphical interface for viewing and editing geometry data of the experiment. A configuration installation system is created for the Geometry IS initialization and deployment. Users of the experiments can immediately start filling the database with the geometry of the detectors via the Web interface after initialization.

Classification:

- ddc:530

Contributing Institute(s):

1. Группа №2 развития и сопровождения информационных систем общепитутского назначения (ЛИТ:НТОВКиРИС:Сек.№4:Гр.№2)
2. Группа №1 математического и программного обеспечения (ЛФВЭ:Отд.№3:НЭОФСТИнаКНИСА:Гр.№1)
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4. Сектор №1 методов моделирования физических процессов и анализа данных наблюдений (ЛИТ:НОВФ:Сек.№1)

Research Program(s):

1. 05-6-1118-1118 - Information and Computing Infrastructure of JINR (PTP-05-6-1118-1118)_(PTP-05-6-1118-1118)
2. BM@N - BM@N (PTP-BM@N)_(PTP-BM@N)
3. РФФИ_18-02-40125_мега - Совершенствование информационных систем для онлайн и офлайн обработки данных экспериментальных установок комплекса NICA (18-02-40125)_(18-02-40125)

Experiment(s):

1. BM@N

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List of Publications of Department

Группа №2 развития и сопровождения информационных систем общепитутского назначения

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Development of a Geometry Database and Related Services for the NICA Experiments

Physics of particles and nuclei 52(4), 842 - 846 (2021) [[10.1134/S1063729621040031](#)] [SFX](#)

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Journal Article

[Filozova, I.](#) * ; [Zaikina, T.](#) (Corresponding author) * ; [Shestakova, G.](#) * ; [Semenov, R.](#) * ; [Köhler, M.](#) ; [Wagner, A.](#) ; [Baracchi, L.](#)
JINR Open Access Repository based on the JOIN² Platform

XXII International Conference on Data Analytics and Management in Data Intensive Domains, DAMDID/RCDL 2020, Voronezh, Russia, 13 Oct 2020 - 16 Oct 2020 CEUR workshop proceedings 2790, 142-155 (2020) [[10.3204/PUBDB-2021-00818](#)] [SFX](#)

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Journal Article

[Gertsenberger, K.](#) * ; [Merts, S.](#) * ; [Gabbrakhmanov, I.](#) * ; [Filozova, I.](#) * ; [Alexandrov, E.](#) * ; [Moshkin, A.](#) * ; [Chebotov, A.](#) * ; [Aleksandrov, I. N.](#) (Corresponding author) *
Software Development for the BM@N Experiment at NICA: Challenges and Status

Mathematical Modeling and Computational Physics 2019, MMCP 2019, , The European physical journal / Web of Conferences 226, 03008 - (2020)

[[10.1051/epjconf/202022603008](#)] [SFX](#)

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Journal Article

[Baranov, A. V.](#) * ; [Balashov, N. A.](#) * ; [Makhalkin, A. N.](#) * ; [Mazhitova, Y.](#) * ; [Kutovskiy, N. A.](#) (Corresponding author) * ; [Semenov, R. N.](#) *
New features of the JINR cloud

8 International Conference "Distributed Computing and Grid-technologies in Science and Education" (GRID 2018), GRID 2018, Dubna, Russia, CEUR workshop proceedings 2267, 257-261 (2020) [SFX](#)

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Development of the Geometry Database for the BM@N Experiment of the NICA Project

Mathematical Modeling and Computational Physics 2019, MMCP 2019, High Tatra Mountains Stara Lesna, Slovakia, The European physical journal / Web of Conferences 226, 03001 - (2020) [[10.1051/epjconf/202022603001](#)] [SFX](#)

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List of Publications of PTP Theme

05-6-1118

Информационно-вычислительная инфраструктура ОИЯИ

Information and Computing Infrastructure of JINR

Coordinator Korenkov, Vladimir
Grant period 2014 - 2023
Funding body Joint Institute for Nuclear Research
Categories [Theme](#)
Identifier G:(Ru-JINR)PTP-05-6-1118

[↑ Networking, Computing, Computational Physics \(05\) ↑](#)

RECENT PUBLICATIONS

Contribution to a conference proceedings

[Petrosyan, A. S.](#) (Corresponding author) ; [Malevanniy, D.](#)

DISTRIBUTED DATA PROCESSING OF THE COMPASS EXPERIMENT

The 27th International Symposium Nuclear Electronics and Computing, NEC 2019, Budva, JINR, Montenegro, 30 Sep 2019 - 4 Oct 2019 Aachen : RWTH

Vol-2507, (2019) [SFX](#)

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Journal Article

[Astrakhantsev, N. Y.](#) ; [Braguta, V. V.](#) ; [Kotov, A. Y.](#) (Corresponding author) ; [Nikolaev, A. A.](#)

Lattice study of QCD at finite chiral density: topology and confinement

Missing Journal / Fehlende Zeitschrift 1, 10-15 (2019) [SFX](#)

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Preprint

[Volkov, A. D.](#) (Corresponding author)

Тест Стенд для исследования характеристик строу.

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Lecture

[Ferguson, J.](#) (Corresponding author)

CERN Welcome talk and opening of the AIS part

Lecture at SCHOOL ON JINR/CERN GRID AND ADVANCED INFORMATION SYSTEMS (Dubna, Russia),

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List of Publications of the Experiment

BM@N

Также: [NICA](#); [Nuclotron](#)

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Categories: [Experiment](#)


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[Development of a Geometry Database and Related Services for the NICA Experiments](#)
[Physics of particles and nuclei](#) 52(4), 842 - 846 (2021) [[10.1134/S1063729621040031](#)]  [BibTeX](#) | [EndNote: XML](#) | [Text](#) | [RIS](#)
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[Dementev, D. V.*](#); [Lygdenova, T. Z.*](#); [Kharlamov, P. I.*](#)
[Investigation and Optimization of a Cooling System Prototype for a Module of the Silicon Tracking System for the BM@N Experiment](#)
[Instruments and experimental techniques](#) 64(1), 40 - 47 (2021) [[10.1134/S0020441220060159](#)]  [BibTeX](#) | [EndNote: XML](#) | [Text](#) | [RIS](#)
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Journal Article
[Gertsenberger, K.*](#); [Merts, S.*](#); [Gabbrakhmanov, I.*](#); [Filozova, I.*](#); [Alexandrov, E.*](#); [Moshkin, A.*](#); [Chebotov, A.*](#); [Aleksandrov, I. N. \(Corresponding author\)*](#)
[Software Development for the BM@N Experiment at NICA: Challenges and Status](#)
[Mathematical Modeling and Computational Physics 2019, MMCP 2019, , The European physical journal / Web of Conferences](#) 226, 03008 - (2020)
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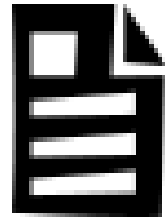
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- RFBR grants and others
- Experiment / Facilities

Future plans

- Move to Production
- ReStyle
- PIN Integration



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