

Welcome

IV International Workshop on *Data Life Cycle in Physics* Zoom, 08-10 June 2020



HELMHOLTZ
RESEARCH FOR GRAND CHALLENGES

Topics

- **Data centres in astroparticle physics**
- **Organization and maintaining of data life cycles**
- **Data and metadata management in experimental physics**
- **Large-scale distributed data storages**
- **Combined data analysis in astroparticle physics**
- **Modern methods of data analysis for combined datasets**
- **Open data in physics**
- **Outreach and education in astroparticle physics**

Focused around the German Russian Astroparticle Data Life Cycle Initiative

Programm

8-10 June 2020; 9:00-12:30 CEST

Monday

09:00	TAIGA: status, results and perspectives	<i>Prof. Leonid Kuzmichev</i>
	<i>Indico / zoom</i>	09:00 - 09:30
	Tunka-Rex Virtual Observatory	<i>Dmitriy Kostunin</i>
	<i>Indico / zoom</i>	09:30 - 09:45
	Reconstruction radio signals from air-showers with autoencoder	<i>Pavel Bezyazeev</i>
	<i>Indico / zoom</i>	09:45 - 10:00
10:00	Development self-trigger algorithms for radio detection of air-showers	<i>Oleg Fedarov</i>
	<i>Indico / zoom</i>	10:00 - 10:15
	Fast Simulation of Electromagnetic Calorimeter using Deep Learning	<i>Mrs. Jubna Irakkathil Jabbar</i>
	<i>Indico / zoom</i>	10:15 - 10:30
	Evaluation of the impact of various local data caching configurations at Tier2/Tier3 WLCG sites	<i>Andrey Kiryanov</i>
	<i>Indico / zoom</i>	10:45 - 11:00
11:00	Access Pattern Analysis in the EOS Storage System at CERN	<i>Olha Chuchuk</i>
	<i>Indico / zoom</i>	11:00 - 11:15
	Dynamic Computing Resource Extension using COBalD/TARDIS	<i>Ralf Florian von Cube</i>
	<i>Indico / zoom</i>	11:15 - 11:30
	Publishing multi-purpose data sets from KM3NeT	<i>Jutta Schnabel</i>
	<i>Indico / zoom</i>	11:30 - 11:45
	A review of methods of resolution estimation for 3D reconstructions for nanoscale biological objects from experiments data on super-bright X-ray free electron lasers (XFELs)	<i>Ms. Ksenia Ikonnikova</i>
12:00	Modifications to the EMC algorithm for orientation recovery in Single Particle Imaging experiments on X-ray free electron lasers	<i>Mr. Sergei Zolotarev</i>

Tuesday

09:00	Welcome words	<i>Andreas Haungs</i>
	<i>Indico / zoom</i>	09:00 - 09:15
	Towards a global analysis and data centre for multi-messenger astroparticle physics	<i>Andreas Haungs</i>
	<i>Indico / zoom</i>	09:15 - 09:45
	AstroDS - A Distributed Storage for Astrophysics of Cosmic Rays. Current Status.	<i>Alexander Kryukov et al.</i>
10:00	<i>Indico / zoom</i>	09:45 - 10:15
	Access Rights Management in Decentralized Distributed Computing Systems	<i>Dr. Andrey Demichev</i>
	<i>Indico / zoom</i>	10:15 - 10:30
	KCDC: status and future perspectives	<i>Juergen Wochele</i>
	<i>Indico / zoom</i>	10:45 - 11:00
11:00	KCDC Analysis Extension	<i>Frank Polgart</i>
	<i>Indico / zoom</i>	11:00 - 11:15
	The current design and implementation of the AstroDS Data Aggregation Service	<i>Minh-Duc Nguyen</i>
	<i>Indico / zoom</i>	11:15 - 11:30
	Data agregation in astroparticle physics	<i>Victoria Tokareva</i>
	<i>Indico / zoom</i>	11:30 - 11:45
	MD Catalog - integration with external data storages. Current state.	<i>Andrey Mikhailov</i>
	<i>Indico / zoom</i>	11:45 - 12:00
12:00	A model of data processing pipeline for space weather analysis and forecast	<i>Minh-Duc Nguyen</i>
	<i>Indico / zoom</i>	12:00 - 12:15

Wednesday

09:00	Big Data Virtualization: why and how?	<i>Prof. Alexander Bogdanov</i>
	<i>Indico / zoom</i>	09:00 - 09:30
	Outreach activities in astroparticle physics at KIT	<i>Katrin Link</i>
	<i>Indico / zoom</i>	09:30 - 09:45
	Educational and outreach resource for astroparticle physics	<i>Yulia Kazarina</i>
	<i>Indico / zoom</i>	09:45 - 10:00
10:00	A job management system for utilization of idle supercomputer resources	<i>Elena Fedotova</i>
	<i>Indico / zoom</i>	10:00 - 10:15
	Comparison of container virtualization tools for utilization of idle supercomputer resources	<i>Julia Dubenskaya</i>
	<i>Indico / zoom</i>	10:15 - 10:30
	Session 6 - Closed for Project	
11:00		
12:00	<i>Indico / zoom</i>	10:45 - 12:15

<https://zoom.us/j/98141351045?pwd=SHIYK1VOSk1WdTBwbmhoamhJZndQUT09>

Password: DLC-2020

Use blue hand to contribute to discussions or to ask questions

Proceedings

- <https://indico.scc.kit.edu/event/806/page/539-proceedings>
- Submission by e-mail before **June 22, 2020**
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