Physics Coordinator communications

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SPD Physics & MC
28 June 2023

Meetings

- I suggest to cancel the P**hysics & MC meeting** in **July**

- The next **Physics & MC** will be in the end of **August**

- You may report your progress or problems at the **Physics Weekly meetings**

SpdRoot installation

- Using **docker image** is **strongly recommended** way to install and use SpdRoot (see "https://git.jinr.ru/nica/spdroot/-/wikis/SpdRoot in Docker")

- Also a page on using VSCode for **development inside the container** is added (see "https://git.jinr.ru/nica/spdroot/-/wikis/Using VSCode with docker container").
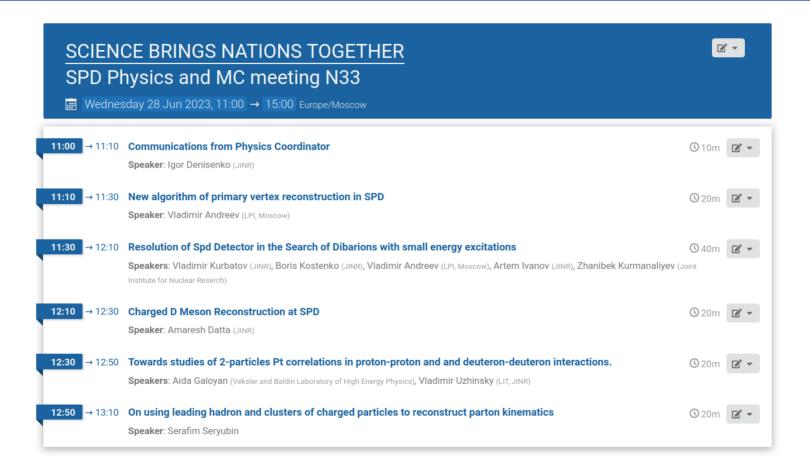
SpdRoot: what's done

Checkout geometry-update-spring-2023 branch from the git repository.

Item	Status	Comment
RS	+	Geometry
ECal	+	Geometry ("calibration" check needed)
TS (endcaps)	+	Position
TOF	+/-	Geometry updated, PID update is required
AEG	+	Geometry
BBC	+	Geometry and position
Magnet	+	Size updated
Mag. field	+	The field map will uploaded to cvmfs. Currently, it can be downloaded from https://disk.jinr.ru/index.php/s/QQwHa2sTWkeGFex (field_full1_8n2.0.bin) If you don't put the field to the default location, check **MAGFPATH** env variable.
DIRC	not included	I would work on DIRC with low priority

SpdRoot: what's not done

- Examples scripts and main scripts are not fully up to date and some test scripts are missing.

- The bug in straw hit creation is well understood but not fixed yet.

- Testing of this SpdRoot update is much welcome!

SCIENCE BRINGS NATIONS TOGETHER
SPD Physics and MC meeting N33

📅 Wednesday 28 Jun 2023, 11:00 → 15:00 Europe/Moscow

11:00 → 11:10 **Communications from Physics Coordinator** 🕐 10m

Speaker: Igor Denisenko (JINR)

11:10 → 11:30 **New algorithm of primary vertex reconstruction in SPD** 🕐 20m

Speaker: Vladimir Andreev (LPI, Moscow)

11:30 → 12:10 **Resolution of Spd Detector in the Search of Dibarions with small energy excitations** 🕐 40m

Speakers: Vladimir Kurbatov (JINR), Boris Kostenko (JINR), Vladimir Andreev (LPI, Moscow), Artem Ivanov (JINR), Zhanibek Kurmanaliyev (Joint Institute for Nuclear Reserch)

12:10 → 12:30 **Charged D Meson Reconstruction at SPD** 🕐 20m

Speaker: Amaresh Datta (JINR)

12:30 → 12:50 **Towards studies of 2-particles Pt correlations in proton-proton and and deuteron-deuteron interactions.** 🕐 20m

Speakers: Aida Galoyan (Veksler and Baldin Laboratory of High Energy Physics), Vladimir Uzhinsky (LIT, JINR)

12:50 → 13:10 **On using leading hadron and clusters of charged particles to reconstruct parton kinematics** 🕐 20m

Speaker: Serafim Seryubin

Thank you!