

VIII SPD Collaboration meeting, Dubna, JINR, Nov. 5-8, 2024

REPORT OF SPOKESPERSONS

A.Guskov V.Kim

VII COLLABORATION MEETING IN ALMATY

- > >60 participants in person from 11 participating institutes
- ► ~60 participants via ZOOM
- ► 57 talks





INTERACTION WITH SPD DETECTOR ADVISORY COMMITTEE

SPD DAC members

Prof. Eduard Kistenev

Brookhaven National Laboratory (retired) PHENIX/sPHENIX



Prof. Heng Yuekun IHEP CAS *BESIII, Daya Bay, JUNO*

Prof. Huang Xingtao Shandong University BESIII, STCF, Daya Bay, JUNO



Prof. Ivan Logashenko (chair)

BINP, Novosibirsk

CMD-2, CMD-3 (BINP), Muon G-2 (BNL, FNAL), SCTF





- DAC meeting, Jan.25, 2024
- Start-up meeting
- DAC meeting, Feb.6, 2024

Discussion with spokespersons

• DAC meeting, Feb.27, 2024

Presentations by SPD collaboration

- List of questions, May 7, 2024
- DAC meeting, June 4, 2024

Discussion of responses



SPD DAC REPORT AT THE SESSION OF JINR PROGRAM ADVISORY COMMITTEE FOR PARTICLE PHYSICS (I, LOGASHENKO, JUNE, 17)

Summary from SPD DAC (1)

- We congratulate the collaboration for the great works done over last years
- We are thankful to the collaboration for the presentations, additional materials and comprehensive answers to our questions
- SPD is an ongoing project and the presented TDR does not represent the final description of the SPD setup. Nevertheless it is a well-prepared and comprehensive document which provides enough information for the review.
- We recommend to the PAC to approve the current version of the TDR assuming that finalization of the subsystems configuration will naturally take place at the next stage of elaboration.
- We haven't identified any particular item which would put under risk the whole project.
- We fully support the staged approach to the development of experiment and find it important to have the detector ready for stage 1 operation as soon as possible



SPD DAC REPORT AT THE SESSION OF JINR PROGRAM ADVISORY COMMITTEE FOR PARTICLE PHYSICS (I, LOGASHENKO, JUNE, 17)

Summary from SPD DAC (2)

- operation
- detector for which the final design is ready
- Development and production of detector electronics seems to be the key risk factor.
- experiment and support the idea of sharing resources between all NICA experiments
- operation

We support the idea of installing parts of ECAL (that can be ready in time) for the stage 1

• We recommend to put the highest priority to finalizing the complete assembly and interfaces scheme for the full detector setup. The construction for major subsystems can start only after.

We recommend to switch to procurement/construction for the materials and the parts of

We find the computing infrastructure as the one of the most challenging factors for the

 We recommend to organize joined working group between SPD collaboration and NICA accelerator team to enhance detector-accelerator collaboration in preparation for stage 1



PAC RECOMMENDATIONS

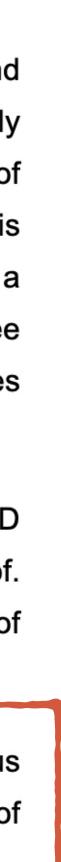
III. Reports on the ongoing projects

The PAC takes note of the status of the SPD project at NICA presented by A. Guskov. The experiment is dedicated to the study of the spin structure of proton and deuteron using high-luminosity collisions of polarized beams. After submitting the Conceptual Design Report, the international SPD collaboration, which currently includes more than 400 scientists from more than 30 research centers, prepared the Technical Design Report for the SPD experiment. As part of the preparation of these reports, R&D on the main subsystems of the experimental setup was carried out, and prototypes of the main elements of the detector were produced. The team is now planning to start building the subsystems of the first phase, which include a muon system, a superconducting solenoid and an associated cryogenic system, a straw-tube-based track detector, a beam-beam collision counter (BBC), an MCP-based beam collision detector, a Micromegas-based central tracker, a zero-degree calorimeter (ZDC), the end-cap part of an electromagnetic calorimeter, a data acquisition system, a slow control system, a gas distribution system, supporting structures and corresponding IT infrastructure.

The SPD Detector Advisory Committee conducted a thorough review of the updated SPD TDR and held several meetings with the representatives of the SPD collaboration, where questions were asked about the design and readiness of the Collaboration to start implementation of the first phase of the SPD project. Prof. I. Logashenko, Chairman of the SPD DAC, presented the evaluation report of the DAC. The PAC thanks the DAC for this review and emphasizes the importance of regular communication between the SPD Collaboration and this Committee.

Recommendation. The PAC appreciates the achievements of the SPD team in updating the physics program of the experiment, and performing numerous R&D's for preparation of the Conceptual and Technical Design Reports of the detector. The PAC recommends extending the SPD project for 5 years until the end of 2029 with ranking A.

PAC also requested the SPD status report talk at the winter session in Jan, 2025





SUPPORTING PROGRAMME FORM RUSSIAN MINISTRY **OF EDUCATION AND SCIENCE**

- All Russian groups from subordinated organisations participating in works at NICA (excluding KI, MSU, SPbSU, HSE University.) and signed MoU
- ► 200 MRUB (~2.2 M\$) in 2024 for all NICA activities: (MPD, BM@N, SPD, ARIADNA collaborations, accelerator)
- Via government assignment
- Programme will be extended to the next few years
- Some delay with money for universities
- ► ~60 MRUB (650 k\$) for SPD
- Supported groups: MEPhI, Lebedev Ins., Samara Univ., SPbPU, Tomsk Univ., Belgorod Univ., INR, BINP









SUPPORTING PROGRAMME FORM JINR FOR OTHER GROUPS

- ► July 2024 Nov 2024
- ► ~2.5 MRUB (27 k\$) for SPD
- ► 5 groups: PNPI, SINP MSU, SPbSU, INP, AANL, Almaty, Havana Univ.
- Payment to the contractors (including) students and PhD students) and visits to JINR
- Deadline for reports: 15.11.2024



NICA LAUNCH PLANS

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► 13.6.24 - NICA technological launch

	2024 Dec.	2025 Jan	Feb	Mar	Apr	Мау	June	July	August	Sept
Integrated tests of collider systems										
West arc cooling										
East arc cooling										
Booster cooling										
Beam in Booster										
Nuclotron cooling										
Beams in Nuclotron										
Channels tuning										
Injection to NICA										
Acceleration in NICA										
MPD fixed-target program start										



NEXT-YEAR PLANS

Funding of about 4 M\$ is requested for next year

- Mainly for magnet and cryogenic infrastructure
- Construction of the first-phase setup
- Continuation of R&D for the second phase
- ► We plan to start settling in our IP

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CONFERENCE ACTIVITIES IN 2024

- ► Nucleus 2024, Dubna (3)
- ► HSFI 2024, Gatchina (1)
- ► IWHSS CPHI 2024, Erevan (1)
- ► ICPPA 2024, Moscow (5)
- ► MMCP 2024, Erevan (3)
- \blacktriangleright SAEC 2024, St. Petersburg (1)
- ➤ NPCS 2024, Minsk (3)
- Scientific Session of the Section of Nuclear Physics RAS, Dubna (3)
- ► NST 2024, Almaty (1)
- ► AYSS 2024, Dubna (9)
- \blacktriangleright MKT Θ -2024, Protvino (1)
- ► PacificSpin 2024, Hefei (1)



ON BEHALF OF O. TERYAEV

DIPLOMA

This diploma is awarded to

Igor Liashko

for the best report in the Experimental Nuclear Physics section Hicromegas-based Central Tracker prototype for the SPD experiment

presented at the 28th International Scientific Conference of Young Scientists and Specialists (AYSS-2024) organized by the Joint Institute for Nuclear Research

Co-chairmen of the AYSS-2024 Scientific Advisory Board

Dmitry Kamari

Sergei Nedelko

October 28 - November 1, 2024

JINR, Dubna ayssconf@jinr.ru

11

30+2 talks



CONFERENCE ACTIVITIES 2025

Most important for us:

► Deep Inelastic Scattering, **DIS 2025**, March 24-28, Cape Town ► 26th International Symposium on Spin Physics, **SPIN 2025**, September 21-26, Qingdao

CONFERENCE ACTIVITIES

Please follow our publication policy!

https://spd-t.jinr.ru/wp-content/uploads/2024/02/SPD_Publication_Policy.pdf

SPD Publication Policy July 20, 2023 (approved by SPD CB on Oct, 9)

This document defines the rules and gives the recommended deadlines for making official the results obtained within the SPD collaboration as well as for their publication and dissemination to the outside world. It aims to clarify, simplify and fasten as much as possible the procedure for the publications of the results of individuals and groups, after endorsement by the SPD collaboration. It is intended to be annexed to the chart of the SPD collaboration.

This document can be amended and updated by the Publication Committee, who reports to the Collaboration Board.

The role and constitution of the Publication Committee is defined in the SPD Bylaws (last amended in September 29-2021) section VII.



NATURAL SCIENCE REVIEW 1 1 (2024)

nsr.jinr.int

Technical Design Report of the Spin Physics Detector at NICA

V. Abazov¹, V. Abramov², L. Afanasyev¹, R. Akhunzyanov¹, A. Akindinov³, I. Alekseev³, A. Aleshko⁴, V. Alexakhin¹, G. Alexeev¹, L. Alimov⁵, A. Allakhverdieva¹, A. Amoroso⁶, V. Andreev⁷, V. Andreev⁸, E. Andronov⁹, Yu. Anikin¹⁰, S. Anischenko¹¹, A. Anisenkov¹², V. Anosov¹, E. Antokhin¹², A. Antonov¹³, S. Antsupov¹³, A. Anufriev⁵, K. Asadova¹, S. Ashraf¹⁴, V. Astakhov¹, A. Aynikeev⁴, M. Azarkin⁷, N. Azorskiy¹, A. Bagulya⁷, D. Baigarashev^{1,15}, A. Baldin¹, E. Baldina¹, N. Barbashina¹⁶, A. Barnyakov¹², S. Barsov¹⁷ A. Bartkevich¹¹, V. Baryshevsky¹¹, K. Basharina¹, A. Baskakov⁵, V. Baskov⁷, M. Batista¹⁸, M. Baturitsky¹⁹, V. Bautin¹, T. Bedareva¹², S. Belokurova⁹, A. Belova¹, E. Belyaeva¹, A. Berdnikov¹³, Ya. Berdnikov¹³, A. Berezhnoy⁴, A. Berngardt¹⁰, Yu. Bespalov¹, V. Bleko¹, L. Bliznyuk¹⁹, D. Bogoslovskii¹, A. Boiko¹³, A. Boikov¹, M. Bolsunovskya¹³, E. Boos⁴, V. Borisov¹, V. Borsch¹⁰, D. Budkouski¹, S. Bulanova¹⁷, O. Bulekov¹⁶, V. Bunichev⁴, N. Burtebayev¹⁵, D. Bychanok¹¹, A. Casanova¹⁸, G. Cesar¹⁸, D. Chemezov¹, L. Chen²⁰, A. Chepurnov⁴, V. Chmill¹, A. Chukanov¹, A. Chuzo¹⁶, A. Danilyuk²¹, A. Datta¹, D. Dedovich¹, M. Demichev¹, G. Deng²⁰, I. Denisenko¹, O. Denisov⁶, T. Derbysheva¹², D. Derkach²², A. Didorenko¹, M.-O. Dima¹, A. Doinikov¹³, S. Doronin¹⁶, V. Dronik²³, F. Dubinin¹⁶, V. Dunin¹, A. Durum², A. Egorov¹⁷, R. El-Kholy¹⁴, T. Enik¹, D. Ermak¹¹, D. Erofeev¹⁰, A. Erokhin¹², D. Ezhov¹³, O. Fedin¹⁷, Ju. Fedotova¹¹, G. Feofilov⁹, Yu. Filatov^{1,24}, S. Filimonov¹⁰, V. Frolov¹, K. Galaktionov⁹, A. Galoyan¹, A. Garkun²⁵, O. Gavrishchuk¹, S. Gerasimov¹, S. Gerassimov⁷, M. Gilts²³, L. Gladilin^{1,4}, G. Golovanov¹, S. Golovnya², V. Golovtsov¹⁷, A. Golubev³, S. Golubykh¹, P. Goncharov¹, A. Gongadze¹, N. Greben¹, A. Gregoryev¹⁶, D. Gribkov⁴, A. Gridin¹, K. Gritsay¹, D. Gubachev¹, J. Guo²⁰, Yu. Gurchin¹, A. Gurinovich¹¹, Yu. Gurov¹⁶, A. Guskov^{*1}, D. Gutierrez¹⁸, F. Guzman¹⁸, A. Hakobyan²⁶, D. Han²⁷, S. Harkusha¹⁹, Sh. Hu²⁰, S. Igolkin⁹, A. Isupov¹, A. Ivanov¹, N. Ivanov^{1,26}, V. Ivantchenko¹⁰, Sh. Jin²⁰, S. Kakurin¹, N. Kalinichenko⁹, Y. Kambar¹, A. Kantsyrev³, I. Kapitonov¹, V. Karjavine¹, A. Karpishkov^{1,5}, A. Katcin¹², G. Kekelidze¹, D. Kereibay¹, S. Khabarov¹, P. Kharyuzov¹, H. Khodzhibagiyan¹, E. Kidanov²³, E. Kidanova²³, V. Kim¹⁷, A. Kiryanov¹⁷, I. Kishchin²³, E. Kokoulina¹, A. Kolbasin⁷, V. Komarov¹, A. Konak¹, Yu. Kopylov¹, M. Korjik¹¹, M. Korotkov¹⁶, D. Korovkin¹, A. Korzenev¹, B. Kostenko¹, A. Kotova¹, A. Kotzinian²⁶, V. Kovalenko⁹, N. Kovyazina¹, M. Kozhin¹, A. Kraeva¹⁶, V. Kramarenko^{1,4}, A. Kremnev¹², U. Kruchonak^{1,19}, A. Kubankin²³, O. Kuchinskaia¹⁰, Yu. Kulchitsky^{1,19}, S. Kuleshov^{28,29}, A. Kulikov¹, V. Kulikov¹², V. Kurbatov¹, Zh. Kurmanaliev^{1,15}, Yu. Kurochkin¹⁹, S. Kutuzov¹, E. Kuznetsova¹⁷, I. Kuyanov¹², E. Ladygin^{1,2}, V. Ladygin¹, D. Larionova¹³, V. Lebedev¹, R. Lednicki¹, M. Levchuk¹⁹, P. Li²⁰, X. Li²⁰, Y. Li²⁷, A. Livanov¹, A. Lobanov¹³, A. Lobko¹¹, K. Loshmanova¹, S. Lukashevich⁸, E. Luschevskaya³, A. L'vov⁷, I. Lyashko¹, V. Lysan¹, V. Lyubovitskij¹⁰, D. Madigozhin¹, V. Makarenko¹¹, N. Makarov⁹, R. Makhmanazarov¹⁰, V. Maleev¹⁷, D. Maletic³⁰, A. Malinin¹⁶,

TECHNICAL DESIGN REPORT PUBLICATION

New JINR electronic journal NATURAL SCIENCE **REVIEW**

> SPD TDR is accepted for publication as a paper to the 1st issue

► We hope to see the 1st issue online in a few days





NEW SPD WEBSITE



Spin Physics Detector Project

General Information Collaboration







Media

Joint Institute for Nuclear Research

Publications Setup

Software

Internal Access

Other

https://spd.jinr.ru/





COLLABORATION NEWS

We welcome new group!



MoUs:

- Havana university signed • **iThemba LABS** - signing procedure has started
- HSE University signing procedure has
- Cairo University signing procedure has
- Joining of the Vinca institute (Serbia) has been suspended
 - **Contacts with new Chinese groups**

PROBLEMS TO LOOK OUT FOR

- Difficulty in moving from the R&D phase to the detector construction phase
- Lack of involvement of some institutions
- Insufficient co-ordination of joint work with some institutes

This is a natural difficulty at this stage of the project and I am sure that we will overcome it successfully!

COORDINATORS



Technical coordinator Alexander **Korzenev** akorzenev@jinr.ru

Physics coordinator lgor Denisenko iden@jinr.ru

Software Deputy software coordinator coordinator Danila Alexey **Deputy physics Zhemchugov** Oleynik coordinator zhemchugov@jinr.ru danila@jinr.ru Amaresh Datta amareshdatta@gmail.com

1-st stage physics working group coordinator Evgeny **Soldatov Evgeny.Soldatov@cern.ch**

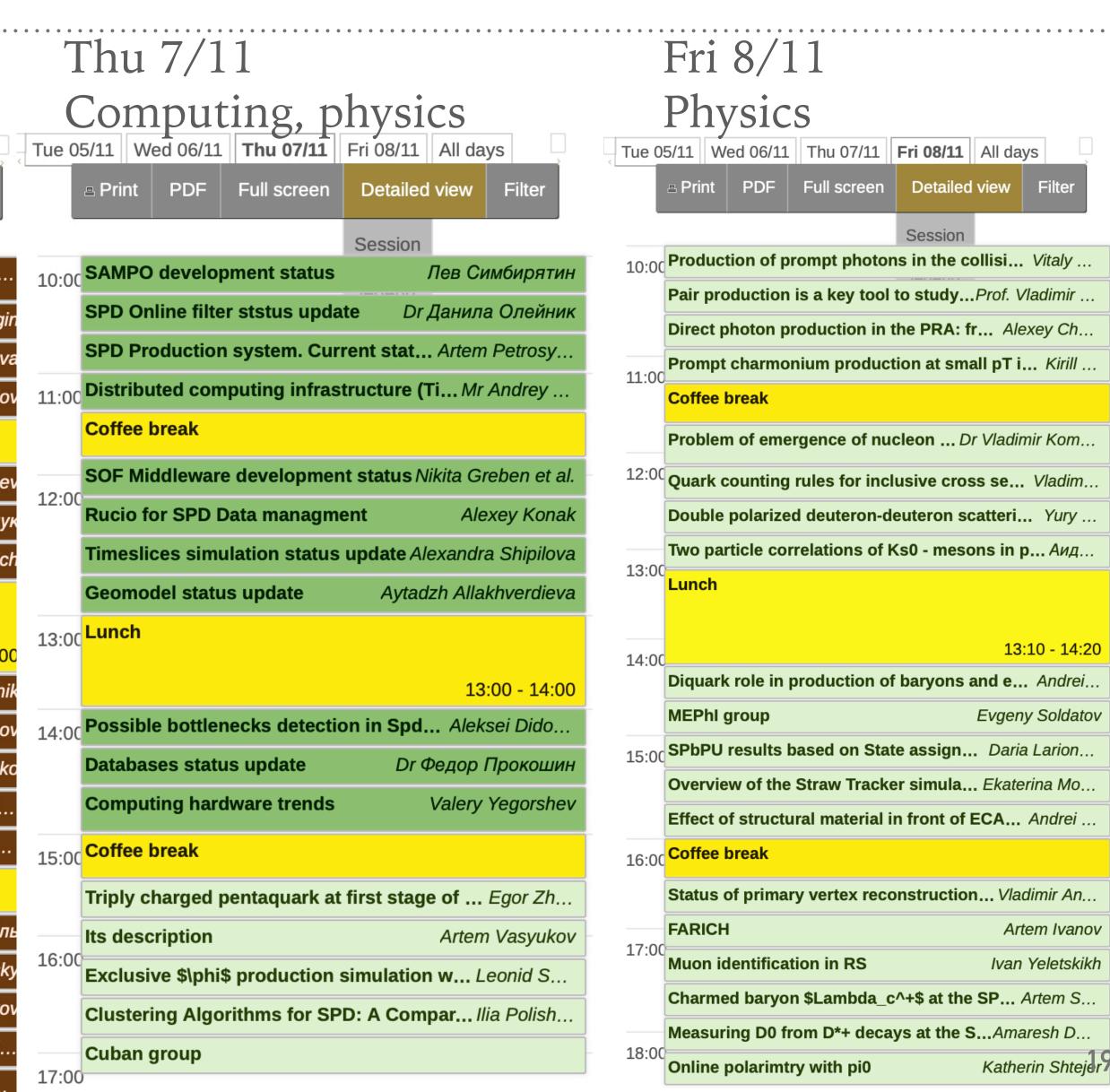






TIMETABLE

Tue 5/11	Wed 6/11
General+hardware+DAQ	Hhardware
Tue 05/11 Wed 06/11 Thu 07/11 Fri 08/11 All days	Tue 05/11 Wed 06/11 Thu 07/11 Fri 08/11 All days
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O9:00 Registration	Session
Conference Hall, Building 215, VBLHEP, JINR, Dubna 09:00 - 10:00	Status of the SPD Solenoid Magnet De Sergey Pivo Quench Analysis of the SPD Solenoid Alexey Bragi
10:00 Welcome address	
Report of SpokespersonsAlexey Guskov et al.	Control Dewar design Tatiana Bedarev
Report of the CB chairArmen Tumasyan	Cryogenic system Mr Sergey Vizgalo
Collaboration photo	Coffee break
11:00 Cofee break	12:00 RS status report Gennady Alexee
Next SPD collaboration meeting in Er Armen Tumas	ECal status report Dr Олег Гаврищу
Report of the Technical Coordin Александр Корзе	MicroMegas status report Dmitry Dedovic
12:00 Report of the Physics Coordinator Igor Denisenko	13:00 Lunch
Report of the Software Coordinator Алексей Жемчугов	13.00
13:00 Lunch	13:00 - 14:0
	14:00 Straw-barrel status report Temur Eni
14:00 13:15 - 14:20	Straw beam tests Dmitry Sosno
Status of the NICA complex Evgeny Syresin	Straw-endcap status report Victor Kramarenk
15:00 Current statusАлекса Status of BBC d Arsen	15:00 Join research and development AANL-BUDKArthur
L2 concentrat Vladislav Status of BBC Alekse	Status of Cherenkov counters prototypi Alexander
Cofee break	Coffee break
^{16:00} Current status of T Ol WLS Studies Filipp Dubinin	^{16:00} TOF status report Валерий Чмил
Current status of TDm TDC based on F P. Ne	
FEE for straw r Vitaly B Application of DT Ива	BBC status report Aleksey Tishevsk
17:00 Development Alexande Simulation of Xe12 Kc	ZDC status report Vladimir Polyako
Simulation of pp and dd interactions for Arkadiy Te	On possible development of monolithi Dr Sergey Vi
Discussion &AOB	Modernization and testing of a thermal cham Alex





CONCLUSION

- our work preparation of the Technical Design Report.
- phase experimental setup.
- Joint and well-coordinated efforts are the key to the success of our Collaboration.

> Over the past period, we have successfully completed a very important stage of

> We have an important new stage ahead of us - the construction of the first-



