Draft

**Programme Advisory Committee for Nuclear Physics**

**47th meeting, 17–18 January 2018**

***Wednesday, 17 January 2018 International Conference Centre***

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| *10.00* | 1. | Opening of the meeting | M. Lewitowicz |
|  |  |  |  |
|  | 2. | Implementation of the recommendations of the previous PAC meeting | M. Lewitowicz  (20 min.) |
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|  | 3. | Information on the Resolution of the 122nd session of the JINR Scientific Council (September 2017) and on the decisions of the JINR Committee of Plenipotentiaries (November 2017) | M. Itkis  (25 min.) |
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|  | 4. | Report on the theme “Non-Accelerator Neutrino Physics and Astrophysics” and proposals for their extension: |  |
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|  |  | 4.1. Project GERDA (G&M)  *Referees:* *F. Piquemal, C. Petitjean, Guinyun Kim, V. Garvin, Yu. Shitov* | K. Gusev  (20 min.) |
|  |  |  |  |
|  |  | 4.2. Project SuperNEMO  *Referees:* *F. Piquemal, C. Petitjean, J. Suhonen, A. Starostin, Yu. Efremenko* | Yu. Shitov  (20 min.) |
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| *11.25* |  | *Coffee break* |  |
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|  |  | 4.3. Project BAIKAL  *Referees:* *Z. Vilakazi, V. Ostashko, A. Olshevskiy, S.* *Troitsky* | I. Belolaptikov  (20 min.) |
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|  |  | 4.4. Projects conducted at the Kalinin Nuclear Power Plant: |  |
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|  |  | 4.4.1. Project DANSS  *Referees: I. Štekl, V. Ostashko, Guinyun Kim, A. Serebrov, Yu. Gurov* | V. Egorov  (20 min.) |
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|  |  | 4.4.2. Project GEMMA-III  *Referees: Z. Vilakazi, F. Piquemal, S. Voronov, A. Barabash* | A. Lubashevsky  (20 min.) |
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|  |  | 4.5. Project EDELWEISS-LT, summary on the theme “Non-Accelerator Neutrino Physics and Astrophysics” and proposals for their extension  *Referees:* *Z. Vilakazi, F. Piquemal, C. Petitjean, A. Gladyshev, D. Naumov* | E. Yakushev  (25 min.) |
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| *13.00* | 5. | Visit to the Dzhelepov Laboratory of Nuclear Problems | N. Skobelev  V. Bednyakov |
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|  |  | *Lunch break* |  |
| *15.00* | 6. | Status of the Factory of Superheavy Elements  *Referees: S. Hofmann, M. Lewitowicz, V. Ostashko* | V. Semin  A. Popeko  (20 min.) |
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|  | *7.* | Commissioning of the ACCULINNA-2 fragment separator  *Referees: C. Beck, A. Korsheninnikov, E. Vardaci* | A. Fomichev  (20 min.) |
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|  | 8. | Report on the theme “Theory of Nuclear Structure and Nuclear Reactions” and proposal for a new theme *Referees:* *C. Beck, A.  Korsheninnikov, M. Lewitowicz, E. Vardaci* | N. Antonenko  (30 min) |
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| *16.30* |  | *Coffee break* |  |
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|  | 9. | Scientific reports: |  |
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|  |  | 9.1. “Study of vorticity and hyperon polarization in nuclear collisions within the NICA energy range” | V. Toneev  (25 min.) |
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|  |  | 9.2. “Application of multinucleon transfer reactions to the synthesis of neutron-rich nuclei” | А. Karpov  (25 min.) |
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|  |  | 9.3. “Neutron activation analysis of arsenic and mercury content in human remains of the XVI-XVII centuries from the Moscow Kremlin necropoleis” | T. Panova  A. Dmitriev  (25 min) |
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|  | 10. | General discussion | (40 min.) |

***Thursday, 18 January 2018***

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| *9.30* | 11. | Meeting of the PAC members with the JINR Directorate (closed discussion) |  |
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| *10.00* | 12. | Poster presentations by young scientists | (40 min.) |
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|  |  | *Coffee break (together with poster presentations)* |  |
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|  |  | General conclusion on the poster presentations |  |
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|  |  | Closed session: |  |
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| *10.50* | 13. | Proposals for the agenda of the next PAC meeting |  |
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|  | 14. | PAC recommendations |  |
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| *13.00* | 15. | Closing of the meeting |  |
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| *19.00* |  | Concert in the House of Scientists |  |

The materials of the meeting are available at <http://indico.jinr.ru>