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установок, научный сотрудник)

Список научных работ

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Публикации в рецензируемых журналах (зарубежные):

1. Simulations of the impact of small details on the magnetic field distribution for the compact superconducting cyclotron SC200 commissioning
D. Popov, O. Karamyshev, G. Karamysheva, V. Malinin and G. Shirkov, Eur. Phys. Journal Web of Conferences, ISSN:2100-014X, Изд:EDP Sciences - Web of Conferences, 201, 2019
2. Influence of the RF magnetic field on beam dynamics in SC200 cyclotron
G. Karamysheva, D. Popov, O. Karamyshev, V. Malinin, T. Karamysheva, G. Shirkov, S. Shirkov, Y. Bi, G. Chen, W. Chuansong, K. Ding, Y. Song., Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, ISSN:0168-9002, eISSN:1872-9576, Изд:Elsevier Science Limited, 940, 61-65, 2019
3. Continuous Beam Dynamics Simulation in COMSOL Multiphysics
D. Popov, O. Karamyshev, I.D. Lyapin, V. Malinin, Proceedings of the 12th International Particle Accelerator Conference, ISSN:2673-5490, Изд:JACoW Publishing, 4153-4155, 2021
4. The Impact of Trajectory-Shaped Coil on the Beam Dynamics in the SC230 Superconducting Cyclotron
I.D. Lyapin, O. Karamyshev, V. Malinin, D. Popov, G.A. Karamysheva, Proceedings of the 12th International Particle Accelerator Conference, ISSN:2673-5490, Изд:JACoW Publishing, 2002-2004, 2021

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1. CORD (Closed ORbit Dynamics): A new field map evaluation tool for cyclotron particle dynamics
O. Karamyshev, T. Karamysheva, I. Lyapin, V. Malinin, D. Popov, Письма в ЭЧАЯ, ISSN:1814-5957, eISSN:1814-5973, Изд:ОИЯИ, 18, 4 (236), 481-487, 2021
2. Research and Development of the SC230 Superconducting Cyclotron for Proton Therapy
Karamyshev, O.V., Bunyatov, K.S., Gibinsky, A.L., Gurskiy, S.V., Karamysheva, G.A., Lyapin, I.D., Malinin, V.A., Popov, D.V., Shirkov, G.D., Shirkov, S.G., Physics of Particles and Nuclei Letters, ISSN:1547-4771, Изд:© Pleiades Publishing, Ltd., 18, 1, 63-74, 2021

Материалы научных мероприятий (международные, приглашенный доклад):

1. VIIIth International Particle Accelerator Conference (IPAC 2017), ,

Copenhagen, Denmark

COMPUTER MODELLING OF THE SC202 SUPERCONDUCTING CYCLOTRON FOR HADRON THERAPY, 2017

Материалы научных мероприятий (международные, устный доклад):

1. 21st International Conference on Cyclotrons and their Applications, Paul Scherrer Institute, PSI, and the Swiss Federal Institute of Technology, ETH, ETH Zürich, Switzerland

Compact Superconducting Cyclotron SC200 for Proton Therapy, Galina Karamysheva, Semion Gurskiy, Oleg Karamyshev, Nikolay Morozov, Evgeny Vasilievich Samsonov, Grigori Shirkov, Stepan Shirkov, Grigorii Trubnikov (JINR, Dubna, Moscow Region), Yanfang Bi, Gen Chen, Yonghua Chen, Kaizhong Ding, Hansheng Feng, Junjun Li и др., 2016

2. International Conference on Cyclotrons and their Applications (22nd), , Cape Town, South Africa

JINR PROJECTS of CYCLOTRON FOR PROTON THERAPY, Karamyshev, O., Bunyatov, K., Gurskiy, S., Karamysheva, G., Malinin, V., Popov, D., Shirkov, G., Shirkov, S., Smirnov, V., Vorozhtsov, S., 141-144, JACoW Publishing, CYC 2019 - Proceedings of the 22nd International Conference on Cyclotrons and their Applications, 2019

3. JINR Association of Young Scientists and Specialists Conference "Alushta-2021", Joint Institute for Nuclear Research (JINR), Alushta, Russia

Magnetic channels` design for SC230 cyclotron, D. Popov, G. Karamysheva, V. Malinin, O. Karamyshev, 2021

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1. The XXII International Scientific Conference of Young Scientists and Specialists (AYSS-2018), Joint Institute for Nuclear Research, Dubna, Russia
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1. VIIIth International Particle Accelerator Conference (IPAC 2017), , Copenhagen, Denmark

Present Status of the SC202 Superconducting Cyclotron Project, 2017

2. 40th European Cyclotron Progress Meeting (ECPM), INFN Laboratori Nazionali di Legnaro, Padova, Italy

Evaluating and improving accuracy of the magnet simulation, D. Popov†, T. Karamysheva, O. Karamyshev, V. Malinin, 2017

3. 41st European Cyclotron Progress Meeting, JINR, Dubna, Russia

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Hefei, China, 2018

4. ISBN 978-3-95450-184-79-th International Particle Accelerator Conference, IPAC 2018, TRIUMF, Vancouver, Canada, Vancouver, Canada
BEAM DYNAMICS SIMULATIONS IN THE DUBNA SC202 SUPERCONDUCTING CYCLOTRON FOR HADRON THERAPY, O. Karamyshev, G. Karamysheva, V. Malinin, D. Popov, G. Shirkov, S. Shirkov, JINR, Dubna, Russia, 2018
5. 13-й Международный семинар по проблемам ускорителей заряженных частиц, посвященный памяти В.П. Саранцева, ОИЯИ, Алушта, РФ
Design of SC230 the new cyclotron for proton therapy, V. Malinin, G. Karamysheva, O. Karamyshev, S. Gurskiy, D. Popov, G. Shirkov, S. Shirkov, VI.V. Smirnov, S. Vorozhtsov, 2019
6. International Conference on Medical Accelerators and Particle Therapy, OMA consortium, Seville, Spain
Design of SC230 - the new cyclotron for proton therapy, D. Popov, O. Karamyshev, G. Karamysheva, S. Gurskiy, V. Malinin, Gr. Shirkov, S. Shirkov, V. Smirnov, S. Vorozhtsov., 2019
7. 12th International Particle Accelerator Conference (IPAC21), Brazilian Center for Research in Energy and Materials (CNPEM), Campinas, SP, Brazil
Continuous Beam Dynamics Simulation in COMSOL Multiphysics, D. Popov, O. Karamyshev, I.D. Lyapin, V. Malinin, 2021
8. 12th International Particle Accelerator Conference (IPAC2021), Brazilian Center for Research in Energy and Materials (CNPEM), Campinas, SP, Brazil
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9. IPAC`22 13th International Particle Accelerator Conference, , Bangkok, Thailand
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1. XXV Russian Particle Accelerator Conference, Russian Academy of Science, Scientific Council on Charged Particle Accelerators, Peterhof, St. Petersburg, Russia
HADRON THERAPY RESEARCH AND APPLICATIONS AT JINR, Grigori Shirkov†, Galina Karamysheva, Semion Gurskiy, Oleg Karamyshev, Nikolay Morozov, Dmitriy Popov, Evgeny Samsonov, Stepan Shirkov, Grigoriy Trubnikov, 5, 2016

Материалы научных мероприятий (российские, устный доклад):

1. VII ежегодная конференция молодых ученых и специалистов «Алушта-2018», ОМУС, Алушта, Россия

The influence of small details and imprecisions of the cyclotron on its magnetic field, D. Popov, G. Karamysheva, O. Karamyshev, V. Malinin, S. Gurskiy and G. Shirkov, 2018

Электронные публикации:

1. Algorithms and Methods for High Precision Computer Simulations of Cyclotrons for Proton Therapy: The Case of SC202
T. Karamysheva, O. Karamyshev, V. Malinin, D. Popov,
<https://arxiv.org/abs/1812.08516>, 2019

Препринты:

1. CONCEPTUAL DESIGN OF THE SC230 SUPERCONDUCTING CYCLOTRON FOR PROTON THERAPY
E9-2019-2, O. Karamyshev, G. Karamysheva, S. Gurskiy, V. Malinin, D. Popov, G. Shirkov, S. Shirkov, V. Smirnov, S. Vorozhtsov, JINR, Dubna, Russia, Сообщения ОИЯИ, 2019