

Публикации:

// -- 2022

1. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Technique for suppression of background cascades produced by atmospheric muon bundles in the Baikal-GVD, JINST 17 (2022) 02, C02013, DOI: 10.1088/1748-0221/17/02/C02013
2. Baikal-GVD Collaboration, А.В. Аврорин и др, Глубоководный черенковский детектор в озере Байкал, ЖЭТФ, 2022, том 161, вып.4, 476-496; ID:22057.

// -- 2021

1. Baikal-GVD Collaboration, A.D. Avrorin et al., High-Energy Neutrino Follow-up at the Baikal-GVD Neutrino Telescope, Astron.Lett. 47 (2021) 2, 94-104, Astron.Zh. 47 (2021) 2, 114-124, DOI: 10.1134/S1063773721020018.
2. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Deep-Water Neutrino Telescope in Lake Baikal, Physics of Atomic Nuclei, 2021, Vol84, No 9, pp 1-10. ISSN 1063-7788.
3. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Luminescence of Baikal water as a dynamic background of the Baikal-GVD Neutrino Telescope, JINST 16 (2021) 11, C11011, DOI: 10.1088/1748-0221/16/11/C11011.
4. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Method and portable bench for tests of the laser optical calibration system components for the Baikal-GVD underwater neutrino Cherenkov telescope, JINST 16 (2021) 12, C12011, DOI: 10.1088/1748-0221/16/12/C12011.
5. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Follow-up of the IceCube alerts with the Baikal-GVD telescope, JINST 16 (2021) 11, C11008, DOI: 10.1088/1748-0221/16/11/C11008.
6. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Proposal for fiber-optic data acquisition system for Baikal-GVD, JINST 16 (2021) 11, C11006, DOI: 10.1088/1748-0221/16/11/C11006.
7. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Time synchronization of Baikal-GVD clusters, PoS ICRC2021 (2021) 1067, JINST 16 (2021) 09, C09003, DOI: 10.1088/1748-0221/16/09/C09003.

8. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Measuring muon tracks in Baikal-GVD using a fast reconstruction algorithm, *Eur.Phys.J.C* 81 (2021) 11, 1025, DOI: 10.1140/epjc/s10052-021-09825-y
9. Baikal-GVD Collaboration, A.D.Avrerin et al., High-energy neutrino astronomy and the Baikal-GVD neutrino telescope, *Phys.At.Nucl.* 84 (2021) 4, 513-518, DOI: 10.1134/S1063778821040062.
10. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Neutrino Telescope in Lake Baikal: Present and Nearest Future, *PoS ICRC2021* (2021) 002, DOI: 10.22323/1.395.0002, 10.22323/1.395.002 (publication).
11. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Performance of the muon track reconstruction with the Baikal-GVD neutrino telescope, *PoS ICRC2021* (2021), 1080, DOI: 10.22323/1.395.1080.
12. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Observations of track-like neutrino events with Baikal-GVD, *PoS ICRC2021* (2021) 1177, DOI: 10.22323/1.395.1177.
13. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., The Baikal-GVD neutrino telescope: search for high-energy cascades, *PoS ICRC2021* (2021) 1144, DOI: 10.22323/1.395.1144.
14. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Positioning system for Baikal-GVD, *PoS ICRC2021* (2021) 1083, DOI: 10.22323/1.395.1083.
15. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., An efficient hit finding algorithm for Baikal-GVD muon reconstruction, *PoS ICRC2021* (2021) 1063, DOI: 10.22323/1.395.1063.
16. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Development of the Double Cascade Reconstruction Techniques in the Baikal-GVD Neutrino Telescope, *PoS ICRC2021* (2021) 1167, DOI: 10.22323/1.395.1167.
17. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Methods for the suppression of background cascades produced along atmospheric muon tracks in the Baikal-GVD, *PoS ICRC2021* (2021) 1114, DOI: 10.22323/1.395.1114.
18. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Data Quality Monitoring system of the Baikal-GVD experiment, *PoS ICRC2021* (2021) 1094, DOI: 10.22323/1.395.1094.

19. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Monitoring of optical properties of deep lake water, PoS ICRC2021 (2021) 1034, DOI: 10.22323/1.395.1034.
20. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., The Baikal-GVD neutrino telescope as an instrument for studying Baikal water luminescence, PoS ICRC2021 (2021) 1113, DOI: 10.22323/1.395.1113.
21. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Automatic data processing for Baikal-GVD neutrino observatory, PoS ICRC2021 (2021) 1040, DOI: 10.22323/1.395.1040.
22. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Time synchronization of Baikal-GVD clusters, PoS ICRC2021 (2021) 1067, DOI: 10.22323/1.395.1067.
23. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Experimental string with fiber optic data acquisition for Baikal-GVD, PoS ICRC2021 (2021) 1066, DOI: 10.22323/1.395.1066.
24. Baikal-GVD Collaboration, V.A. Allakhverdyan et al., Multi-messenger and real-time astrophysics with the Baikal-GVD telescope, PoS ICRC2021 (2021) 946, DOI: 10.22323/1.395.0946.
25. Baikal-GVD Collaboration and ANTARES Collaboration, ANTARES offline study of three alerts after Baikal-GVD follow-up found coincident cascade neutrino events, S.A.Garre, F.Versari, A.D.Avrarin, Zh.-A.M.Dzhilkibaev, M.D.Shelepov, O.V.Suvorova; PoS(ICRC2021)1121; DOI: <https://doi.org/10.22323/1.395.1121>

// -- 2020

1. A.D. Avrorin et al., ., (Baikal Collab.), “Calibrating the Measuring Channels of the Baikal-GVD Neutrino Telescope”, Instruments and Experimental Techniques, Vol. 63, No. 4, 551–560; Pribory i Tekhnika Eksperimenta, 2020, No. 4, pp. 120–130, DOI: 10.1134/S0020441220040107.
2. А.В. Аврорин и др., "Эксперимент Baikal-GVD", Ядерная Физика, том 83, номер 6, стр 511-517, 2020; DOI: 10.31857/S0044002720060045.
3. Olga Suvorova et al., (Baikal Collab.), "Recent progress of the Baikal-GVD project", 7pp, 2020; Published in PoS EPS -HEP2019 (2020) 050; DOI: 10.22323/1.364.0050.
4. Grigory Safronov et al., (Baikal Collab.), “Baikal-GVD: status and first results”, arXiv:2012.03373; <https://pos.sissa.it/390/606/pdf>; PoS ICHEP2020 (2021) 606; DOI: 10.22323/1.390.0606.

// -- 2019

7. A.D. Avrorin et al., ., (Baikal Collab.), “BAIKAL-GVD: Baikal-GVD – нейтринный телескоп следующего поколения на озере Байкал”, Bull.Russ.Acad.Sci.Phys. 83 (2019) no.8, 921-922, Izv.Ross.Akad.Nauk Ser.Fiz. 83 (2019) no.8, 1016-1018, DOI: 10.1134/S0367676519080052; DOI: 10.3103/S1062873819080057.

8. A.D. Avrorin et al., ., (Baikal Collab.), “Baikal-GVD: first results and prospects”, EPJ Web Conf. 209 (2019) 01015, 6 pp. DOI: 10.1051/epjconf/201920901015.

9. A.D. Avrorin et al., (Baikal Collab.),”Luminescence of water in Lake Baikal observed with the Baikal-GVD neutrino telescope”, EPJ Web Conf. 207 (2019) 09002, 4pp, DOI: 10.1051/epjconf/201920709002.

10. A.D. Avrorin et al., (Baikal Collab.),” Environmental studies in Lake Baikal: basic facts and perspectives for interdisciplinary research”, EPJ Web Conf. 207 (2019) 09001, 6pp. DOI: 10.1051/epjconf/201920709001.

11. A.D. Avrorin et al., (Baikal Collab.), “Spatial positioning of underwater components for Baikal- GVD”, EPJ Web Conf.207 (2019) 07004, 4pp. DOI: 10.1051/epjconf/201920707004.

12. A.D. Avrorin et al., (Baikal Collab.), “Time calibration of the neutrino telescope Baikal-GVD”, EPJ Web Conf. 207 (2019) 07003, 6pp. DOI: 10.1051/epjconf/201920707003.

13. A.D. Avrorin et al., (Baikal Collab.), “Baikal-GVD: cascades”, EPJ Web Conf. 207 (2019) 05001, 4pp. DOI: 10.1051/epjconf/201920705001.

14. A.D. Avrorin et al., (Baikal Collab.), “Status of the Baikal-GVD Neutrino Telescope”, EPJ Web Conf. 207 (2019) 01003, 6pp. DOI:10.1051/epjconf/201920701003.

15. A.D. Avrorin et al., (Baikal Collab.), "Data Quality Monitoring system in the Baikal-GVD experiment", <https://pos.sissa.it/358/874/pdf>, arXiv:1908.07270.

16. A.D. Avrorin et al., “Search for cascade events with Baikal-GVD”, <https://pos.sissa.it/358/873/pdf>, arXiv:1908.05430.

17. A.D. Avrorin et al., (Baikal Collab.), “A positioning system for Baikal-GVD”, <https://pos.sissa.it/358/1012/pdf>, arXiv:1908.05529.

18. A.D. Avrorin et al., (Baikal Collab.), “Neutrino Telescope in Lake Baikal:

Present and Future”, <https://pos.sissa.it/358/1011/pdf>, arXiv:1908.05427.

19. A.D.Avrerin et al., (Baikal Collab.), “The Baikal-GVD neutrino telescope: First results of multi-messenger studies”, <https://pos.sissa.it/358/1013/pdf>, arXiv:1908.05450.

20. A.D.Avrerin et al., (Baikal Collab.), “The inter-cluster time synchronization systems within the Baikal-GVD detector”, <https://pos.sissa.it/358/877/pdf>, arXiv:1908.05533.

21. A.D Avrorin et al., (Baikal Collab.), “The Baikal-GVD detector calibration”, <https://pos.sissa.it/358/878/pdf>, arXiv:1908.05458.

22. A.D Avrorin et al., (Baikal Collab.), “The optical noise monitoring systems of Lake Baikal environment for the Baikal-GVD telescope”, <https://pos.sissa.it/358/878/pdf>, arXiv:1908.06509.