

Список публикаций Горнушкина Ю.А.

- 1) Optimization of the JUNO liquid scintillator composition using a Daya Bay antineutrino detector
By JUNO and Daya Bay Collaborations (A. Abusleme et al.).
arXiv:2007.00314 [physics.ins-det].
- 2) Feasibility and physics potential of detecting ^8B solar neutrinos at JUNO
By JUNO Collaboration (Angel Abusleme et al.).
arXiv:2006.11760 [hep-ex].
- 3) TAO Conceptual Design Report: A Precision Measurement of the Reactor Antineutrino Spectrum with Sub-percent Energy Resolution
By JUNO Collaboration (Angel Abusleme et al.).
arXiv:2005.08745 [physics.ins-det].
- 4) First observation of a tau neutrino charged current interaction with charm production in the OPERA experiment
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1912.11012 [hep-ex].
[10.1140/epjc/s10052-020-8160-y](https://doi.org/10.1140/epjc/s10052-020-8160-y).
Eur.Phys.J. C80 (2020) no.8, 699.
- 5) Study of tau neutrino production in proton-nucleus interactions
By DsTau Collaboration (Yury Gornushkin for the collaboration).
[10.1088/1742-6596/1390/1/012047](https://doi.org/10.1088/1742-6596/1390/1/012047).
J.Phys.Conf.Ser. 1390 (2019) no.1, 012047.
- 6) Study of Tau Neutrino Production in Proton Nucleus Interactions
By DsTau Collaboration (Yu. Gornushkin for the collaboration).
[10.15407/ujpe64.7.577](https://doi.org/10.15407/ujpe64.7.577).
Ukr.J.Phys. 64 (2019) no.7, 577-582.
- 7) Fast simulation of muons produced at the SHiP experiment using Generative Adversarial Networks
By SHiP Collaboration (C. Ahdida et al.).
arXiv:1909.04451 [physics.ins-det].
[10.1088/1748-0221/14/11/P11028](https://doi.org/10.1088/1748-0221/14/11/P11028).
JINST 14 (2019) P11028.
- 8) DsTau: Study of tau neutrino production with 400 GeV protons from the CERN-SPS
By DsTau Collaboration (Shigeki Aoki et al.).
arXiv:1906.03487 [hep-ex].
[10.1007/JHEP01\(2020\)033](https://doi.org/10.1007/JHEP01(2020)033).
JHEP 2001 (2020) 033.
- 9) Final results on neutrino oscillation parameters from the OPERA experiment in the CNGS beam
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1904.05686 [hep-ex].
[10.1103/PhysRevD.100.051301](https://doi.org/10.1103/PhysRevD.100.051301).
Phys.Rev. D100 (2019) no.5, 051301.
- 10) Sensitivity of the SHiP experiment to Heavy Neutral Leptons
By SHiP Collaboration (C. Ahdida et al.).
arXiv:1811.00930 [hep-ph].
[10.1007/JHEP04\(2019\)077](https://doi.org/10.1007/JHEP04(2019)077).
JHEP 1904 (2019) 077.
- 11) Latest results of the OPERA experiment on nu-tau appearance in the CNGS neutrino beam

By OPERA Collaboration (N. Agafonova et al.).
arXiv:1811.00095 [hep-ex].
[10.21468/SciPostPhysProc.1.028](https://doi.org/10.21468/SciPostPhysProc.1.028).
SciPost Phys.Proc. 1 (2019) 028.

12) Measurement of the cosmic ray muon flux seasonal variation with the OPERA detector
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1810.10783 [hep-ex].
[10.1088/1475-7516/2019/10/003](https://doi.org/10.1088/1475-7516/2019/10/003).
JCAP 1910 (2019) 003.

13) The experimental facility for the Search for Hidden Particles at the CERN SPS
By SHiP Collaboration (C. Ahdida et al.).
arXiv:1810.06880 [physics.ins-det].
[10.1088/1748-0221/14/03/P03025](https://doi.org/10.1088/1748-0221/14/03/P03025).
JINST 14 (2019) no.03, P03025.

14) Final Results of the OPERA Experiment on ν_{τ} Appearance in the CNGS Neutrino Beam
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1804.04912 [hep-ex].
[10.1103/PhysRevLett.121.139901](https://doi.org/10.1103/PhysRevLett.121.139901), [10.1103/PhysRevLett.120.211801](https://doi.org/10.1103/PhysRevLett.120.211801).
Phys.Rev.Lett. 120 (2018) no.21, 211801, Erratum: Phys.Rev.Lett. 121 (2018) no.13, 139901.

15) Final results of the search for $\nu_{\mu} \rightarrow \nu_{e}$ oscillations with the OPERA detector in the CNGS beam
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1803.11400 [hep-ex].
[10.1007/JHEP06\(2018\)151](https://doi.org/10.1007/JHEP06(2018)151).
JHEP 1806 (2018) 151.

16) More results from the OPERA experiment
By G. Galati et al..
[10.1393/ncc/i2017-17160-0](https://doi.org/10.1393/ncc/i2017-17160-0).
Nuovo Cim. C40 (2017) no.5, 160.

17) Study of tau-neutrino production at the CERN SPS
By S. Aoki et al..
arXiv:1708.08700 [hep-ex].

18) Study of charged hadron multiplicities in charged-current neutrino-lead interactions in the OPERA detector
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1706.07930 [hep-ex].
[10.1140/epjc/s10052-018-6223-0](https://doi.org/10.1140/epjc/s10052-018-6223-0), [10.1140/epjc/s10052-017-5509-y](https://doi.org/10.1140/epjc/s10052-017-5509-y).
Eur.Phys.J. C78 (2018) no.1, 62, Erratum: Eur.Phys.J. C78 (2018) no.9, 747.

19) Discovery potential for directional Dark Matter detection with nuclear emulsions
By NEWSdm Collaboration (N. Agafonova et al.).
arXiv:1705.00613 [astro-ph.CO].
[10.1140/epjc/s10052-018-6060-1](https://doi.org/10.1140/epjc/s10052-018-6060-1).
Eur.Phys.J. C78 (2018) no.7, 578.

20) The active muon shield in the SHiP experiment
By SHiP Collaboration (A. Akmete et al.).
arXiv:1703.03612 [physics.ins-det].
[10.1088/1748-0221/12/05/P05011](https://doi.org/10.1088/1748-0221/12/05/P05011).
JINST 12 (2017) no.05, P05011.

- 21) Background suppression in the JUNO experiment
By JUNO Collaboration (Yuri Gornushkin et al.).
[10.22323/1.282.0974](https://doi.org/10.22323/1.282.0974).
PoS ICHEP2016 (2017) 974.
- 22) More results from the OPERA Experiment
By OPERA Collaboration (Yuri Gornushkin for the collaboration).
[10.22323/1.282.0952](https://doi.org/10.22323/1.282.0952).
PoS ICHEP2016 (2017) 952.
- 23) NEWS: Nuclear Emulsions for WIMP Search
By NEWS Collaboration (A. Aleksandrov et al.).
arXiv:1604.04199 [astro-ph.IM].
- 24) OPERA neutrino oscillation search: Status and perspectives
By Yu. Gornushkin.
[10.1393/ncc/i2015-15122-2](https://doi.org/10.1393/ncc/i2015-15122-2).
Nuovo Cim. C38 (2016) no.4, 122.
- 25) JUNO Conceptual Design Report
By JUNO Collaboration (Zelimir Djurcic et al.).
arXiv:1508.07166 [physics.ins-det].
- 26) The Detector System of The Daya Bay Reactor Neutrino Experiment
By Daya Bay Collaboration (F.P. An et al.).
arXiv:1508.03943 [physics.ins-det].
[10.1016/j.nima.2015.11.144](https://doi.org/10.1016/j.nima.2015.11.144).
Nucl.Instrum.Meth. A811 (2016) 133-161.
- 27) Discovery of τ Neutrino Appearance in the CNGS Neutrino Beam with the OPERA Experiment
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1507.01417 [hep-ex].
[10.1103/PhysRevLett.115.121802](https://doi.org/10.1103/PhysRevLett.115.121802).
Phys.Rev.Lett. 115 (2015) no.12, 121802.
- 28) Limits on muon-neutrino to tau-neutrino oscillations induced by a sterile neutrino state obtained by OPERA at the CNGS beam
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1503.01876 [hep-ex].
[10.1007/JHEP06\(2015\)069](https://doi.org/10.1007/JHEP06(2015)069).
JHEP 1506 (2015) 069.
- 29) Locating the neutrino interaction vertex with the help of electronic detectors in the OPERA experiment
By Yu.A. Gornushkin, S.G. Dmitrievsky, A.V. Chukanov.
[10.1134/S1547477115010100](https://doi.org/10.1134/S1547477115010100).
Phys.Part.Nucl.Lett. 12 (2015) no.1, 89-99.
- 30) The OPERA experiment
By N. Agafonova et al..
[10.1016/j.nuclphysbps.2015.10.087](https://doi.org/10.1016/j.nuclphysbps.2015.10.087).
Nucl.Part.Phys.Proc. 267-269 (2015) 87-93.
- 31) The LBNO long-baseline oscillation sensitivities with two conventional neutrino beams at different baselines
By LAGUNA-LBNO Collaboration (S.K. Agarwalla et al.).

arXiv:1412.0804 [hep-ph].

32) Optimised sensitivity to leptonic CP violation from spectral information: the LBNO case at 2300 km baseline

By LAGUNA-LBNO Collaboration (S.K. Agarwalla et al.).

arXiv:1412.0593 [hep-ph].

33) Observation of tau neutrino appearance in the CNGS beam with the OPERA experiment

By OPERA Collaboration (N. Agafonova et al.).

arXiv:1407.3513 [hep-ex].

[10.1093/ptep/ptu132](https://doi.org/10.1093/ptep/ptu132).

PTEP 2014 (2014) no.10, 101C01.

34) Independent measurement of the neutrino mixing angle θ_{13} via neutron capture on hydrogen at Daya Bay

By Daya Bay Collaboration (F.P. An et al.).

arXiv:1406.6468 [hep-ex].

[10.1103/PhysRevD.90.071101](https://doi.org/10.1103/PhysRevD.90.071101).

Phys.Rev. D90 (2014) no.7, 071101.

35) Determination of the muon charge sign with the dipolar spectrometers of the OPERA experiment

By OPERA Collaboration (N. Agafonova et al.).

arXiv:1404.5933 [physics.ins-det].

[10.1088/1748-0221/11/07/P07022](https://doi.org/10.1088/1748-0221/11/07/P07022).

JINST 11 (2016) no.07, P07022.

36) Procedure for short-lived particle detection in the OPERA experiment and its application to charm decays

By OPERA Collaboration (N. Agafonova et al.).

arXiv:1404.4357 [hep-ex].

[10.1140/epic/s10052-014-2986-0](https://doi.org/10.1140/epic/s10052-014-2986-0).

Eur.Phys.J. C74 (2014) no.8, 2986.

37) Measurement of the TeV atmospheric muon charge ratio with the complete OPERA data set

By OPERA Collaboration (N. Agafonova et al.).

arXiv:1403.0244 [hep-ex].

[10.1140/epjc/s10052-014-2933-0](https://doi.org/10.1140/epjc/s10052-014-2933-0).

Eur.Phys.J. C74 (2014) 2933.

38) Results from the Daya Bay Reactor Neutrino Experiment

By K.V. Tsang et al..

[10.1016/j.nuclphysbps.2013.10.059](https://doi.org/10.1016/j.nuclphysbps.2013.10.059).

Nucl.Phys.Proc.Suppl. 246-247 (2014) 18-22.

39) Evidence for $\nu_{\mu} \rightarrow \nu_{\tau}$ appearance in the CNGS neutrino beam with the OPERA experiment

By OPERA Collaboration (N. Agafonova et al.).

arXiv:1401.2079 [hep-ex].

[10.1103/PhysRevD.89.051102](https://doi.org/10.1103/PhysRevD.89.051102).

Phys.Rev. D89 (2014) no.5, 051102.

40) The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment

By LAGUNA-LBNO Collaboration (S.K. Agarwalla et al.).

arXiv:1312.6520 [hep-ph].

[10.1007/JHEP05\(2014\)094](https://doi.org/10.1007/JHEP05(2014)094).

JHEP 1405 (2014) 094.

- 41) Spectral measurement of electron antineutrino oscillation amplitude and frequency at Daya Bay
By Daya Bay Collaboration (F.P. An et al.).
arXiv:1310.6732 [hep-ex].
[10.1103/PhysRevLett.112.061801](https://arxiv.org/abs/10.1103/PhysRevLett.112.061801).
Phys.Rev.Lett. 112 (2014) 061801.
- 42) New results on $\nu_{\mu} \rightarrow \nu_{\tau}$ appearance with the OPERA experiment in the CNGS beam
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1308.2553 [hep-ex].
[10.1007/JHEP04\(2014\)014](https://arxiv.org/abs/10.1007/JHEP04(2014)014), [10.1007/JHEP11\(2013\)036](https://arxiv.org/abs/10.1007/JHEP11(2013)036).
JHEP 1311 (2013) 036, Erratum: JHEP 1404 (2014) 014.
- 43) Search for the $\nu_{\mu} \rightarrow \nu_{\tau}$ oscillation with the OPERA hybrid detector
By N.Yu. Agafonova et al..
[10.1134/S1063779613040023](https://arxiv.org/abs/10.1134/S1063779613040023).
Phys.Part.Nucl. 44 (2013) 703-727.
- 44) Search for $\nu_{\mu} \rightarrow \nu_e$ oscillations with the OPERA experiment in the CNGS beam
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1303.3953 [hep-ex].
[10.1007/JHEP07\(2013\)004](https://arxiv.org/abs/10.1007/JHEP07(2013)004), [10.1007/JHEP07\(2013\)085](https://arxiv.org/abs/10.1007/JHEP07(2013)085).
JHEP 1307 (2013) 004, Addendum: JHEP 1307 (2013) 085.
- 45) Measurement of the neutrino velocity with the OPERA detector in the CNGS beam using the 2012 dedicated data
By OPERA Collaboration (T. Adam et al.).
arXiv:1212.1276 [hep-ex].
[10.1007/JHEP01\(2013\)153](https://arxiv.org/abs/10.1007/JHEP01(2013)153).
JHEP 1301 (2013) 153.
- 46) Improved Measurement of Electron Antineutrino Disappearance at Daya Bay
By Daya Bay Collaboration (F.P. An et al.).
arXiv:1210.6327 [hep-ex].
[10.1088/1674-1137/37/1/011001](https://arxiv.org/abs/10.1088/1674-1137/37/1/011001).
Chin.Phys. C37 (2013) 011001.
- 47) Expression of Interest for a very long baseline neutrino oscillation experiment (LBNO)
By A. Stahl et al..
- 48) Determination of a time-shift in the OPERA set-up using high energy horizontal muons in the LVD and OPERA detectors
By LVD and OPERA Collaborations (N.Yu. Agafonova et al.).
arXiv:1206.2488 [hep-ex].
[10.1140/epjp/i2012-12071-5](https://arxiv.org/abs/10.1140/epjp/i2012-12071-5).
Eur.Phys.J.Plus 127 (2012) 71.
- 49) Search for $\nu_{\mu} \rightarrow \nu_{\tau}$ oscillation with the OPERA experiment in the CNGS beam
By OPERA Collaboration (N. Agafonova et al.).
[10.1088/1367-2630/14/3/033017](https://arxiv.org/abs/10.1088/1367-2630/14/3/033017).
New J.Phys. 14 (2012) 033017.
- 50) Observation of electron-antineutrino disappearance at Daya Bay
By Daya Bay Collaboration (F.P. An et al.).
arXiv:1203.1669 [hep-ex].
[10.1103/PhysRevLett.108.171803](https://arxiv.org/abs/10.1103/PhysRevLett.108.171803).
Phys.Rev.Lett. 108 (2012) 171803.

- 51) A side-by-side comparison of Daya Bay antineutrino detectors
By Daya Bay Collaboration (F.P. An et al.).
arXiv:1202.6181 [physics.ins-det].
[10.1016/j.nima.2012.05.030](https://arxiv.org/abs/10.1016/j.nima.2012.05.030).
Nucl.Instrum.Meth. A685 (2012) 78-97.
- 52) OPERA: Electronic Detectors
By OPERA Collaboration (A. Cazes et al.).
[10.1016/j.nuclphysbps.2012.09.105](https://arxiv.org/abs/10.1016/j.nuclphysbps.2012.09.105).
Nucl.Phys.Proc.Suppl. 229-232 (2012) 468-468.
- 53) Measurement of the neutrino velocity with the OPERA detector in the CNGS beam
By OPERA Collaboration (T. Adam et al.).
arXiv:1109.4897 [hep-ex].
[10.1007/JHEP10\(2012\)093](https://arxiv.org/abs/10.1007/JHEP10(2012)093).
JHEP 1210 (2012) 093.
- 54) Search for $\nu/\mu \rightarrow \nu/\tau$ oscillations in appearance mode in the OPERA experiment
By Yu.A. Gornushkin.
[10.1134/S1063779611040071](https://arxiv.org/abs/10.1134/S1063779611040071), [10.1016/j.nuclphysbps.2011.06.049](https://arxiv.org/abs/10.1016/j.nuclphysbps.2011.06.049).
Phys.Part.Nucl. 42 (2011) 553-557, Nucl.Phys.Proc.Suppl. 218 (2011) 303-308.
- 55) Search for $\nu_{\mu} \rightarrow \nu_{\tau}$ oscillation with the OPERA experiment in the CNGS beam
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1107.2594 [hep-ex].
- 56) Momentum measurement by the Multiple Coulomb Scattering method in the OPERA lead emulsion target
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1106.6211 [physics.ins-det].
[10.1088/1367-2630/14/1/013026](https://arxiv.org/abs/10.1088/1367-2630/14/1/013026).
New J.Phys. 14 (2012) 013026.
- 57) The MPD detector at the NICA heavy-ion collider at JINR
By Kh.U. Abraamyan et al..
[10.1016/j.nima.2010.06.293](https://arxiv.org/abs/10.1016/j.nima.2010.06.293).
Nucl.Instrum.Meth. A628 (2011) 99-102.
- 58) Present status of the OPERA experiment for the direct observation of neutrino oscillations in the $\nu_{\mu} \rightarrow \nu_{\tau}$ channel
By N.Yu. Agafonova et al..
[10.3103/S1062873811030051](https://arxiv.org/abs/10.3103/S1062873811030051).
Bull.Russ.Acad.Sci.Phys. 75 (2011) 423-426, Izv.Ross.Akad.Nauk Ser.Fiz. 75 (2011) 452-455.
- 59) Study of neutrino interactions with the electronic detectors of the OPERA experiment
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1102.1882 [hep-ex].
[10.1088/1367-2630/13/5/053051](https://arxiv.org/abs/10.1088/1367-2630/13/5/053051).
New J.Phys. 13 (2011) 053051.
- 60) Observation of a first ν_{τ} candidate in the OPERA experiment in the CNGS beam
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1006.1623 [hep-ex].
[10.1016/j.physletb.2010.06.022](https://arxiv.org/abs/10.1016/j.physletb.2010.06.022).
Phys.Lett. B691 (2010) 138-145.

- 61) Measurement of the atmospheric muon charge ratio with the OPERA detector
By OPERA Collaboration (N. Agafonova et al.).
arXiv:1003.1907 [hep-ex].
[10.1140/epjc/s10052-010-1284-8](https://doi.org/10.1140/epjc/s10052-010-1284-8).
Eur.Phys.J. C67 (2010) 25-37.
- 62) Contemporary status of the OPERA experiment for detecting $\nu_{\mu} \rightarrow \nu_{\tau}$ oscillations in a ν_{μ} beam
By N.Yu. Agafonova et al..
[10.3103/S1062873809050347](https://doi.org/10.3103/S1062873809050347).
Bull.Russ.Acad.Sci.Phys. 73 (2009) no.5, 646-648, Izv.Ross.Akad.Nauk Ser.Fiz. 73 (2009) no.5, 685-687.
- 63) The OPERA experiment in the CERN to Gran Sasso neutrino beam
By R. Acquafredda et al..
[10.1088/1748-0221/4/04/P04018](https://doi.org/10.1088/1748-0221/4/04/P04018).
JINST 4 (2009) P04018.
- 64) The Detection of neutrino interactions in the emulsion/lead target of the OPERA experiment
By N. Agafonova et al..
arXiv:0903.2973 [hep-ex].
[10.1088/1748-0221/4/06/P06020](https://doi.org/10.1088/1748-0221/4/06/P06020).
JINST 4 (2009) P06020.
- 65) The Magnetized steel and scintillator calorimeters of the MINOS experiment
By MINOS Collaboration (D.G. Michael et al.).
arXiv:0805.3170 [physics.ins-det].
[10.1016/j.nima.2008.08.003](https://doi.org/10.1016/j.nima.2008.08.003).
Nucl.Instrum.Meth. A596 (2008) 190-228.
- 66) Emulsion sheet doublets as interface trackers for the OPERA experiment
By OPERA Collaboration (A. Anokhina et al.).
arXiv:0804.1985 [physics.ins-det].
[10.1088/1748-0221/3/07/P07005](https://doi.org/10.1088/1748-0221/3/07/P07005).
JINST 3 (2008) P07005.
- 67) ILC Reference Design Report Volume 3 - Accelerator
By Nan Phinney et al..
arXiv:0712.2361 [physics.acc-ph].
- 68) ILC Reference Design Report Volume 4 - Detectors
By ILC Collaboration (Ties Behnke et al.).
arXiv:0712.2356 [physics.ins-det].
- 69) The neutrino oscillation OPERA experiment Target Tracker
By E. Baussan et al..
[10.1016/j.nima.2007.08.028](https://doi.org/10.1016/j.nima.2007.08.028).
Nucl.Instrum.Meth. A581 (2007) no.1-2, 465-468.
- 70) International Linear Collider Reference Design Report Volume 2: Physics at the ILC
By ILC Collaboration (Abdelhak Djouadi et al.).
arXiv:0709.1893 [hep-ph].
- 71) ILC Reference Design Report Volume 1 - Executive Summary
By ILC Collaboration (James Brau et al.).
arXiv:0712.1950 [physics.acc-ph].

- 72) The OPERA experiment target tracker
By T. Adam et al..
physics/0701153.
[10.1016/j.nima.2007.04.147](https://doi.org/10.1016/j.nima.2007.04.147).
Nucl.Instrum.Meth. A577 (2007) 523-539.
- 73) A Precision measurement of the neutrino mixing angle θ_{13} using reactor antineutrinos at Daya-Bay
By Daya Bay Collaboration (Xinheng Guo et al.).
hep-ex/0701029.
- 74) Influence of polystyrene scintillator strip methods of production on their main characteristics
By V. Senchyshyn et al..
[10.1016/j.radmeas.2007.02.051](https://doi.org/10.1016/j.radmeas.2007.02.051).
Radiat.Meas. 42 (2007) no.4-5, 911-914.
- 75) Charge collection properties of Monolithic Active Pixel Sensors (MAPS) irradiated with non-ionising radiation
By M. Deveaux et al..
[10.1016/j.nima.2007.08.189](https://doi.org/10.1016/j.nima.2007.08.189).
Nucl.Instrum.Meth. A583 (2007) 134-138.
- 76) Observation of muon neutrino disappearance with the MINOS detectors and the NuMI neutrino beam
By MINOS Collaboration (D.G. Michael et al.).
hep-ex/0607088.
[10.1103/PhysRevLett.97.191801](https://doi.org/10.1103/PhysRevLett.97.191801).
Phys.Rev.Lett. 97 (2006) 191801.
- 77) OPERA: Status of the experiment
By Yu. Gornushkin.
[10.1142/9789812790873_0051](https://doi.org/10.1142/9789812790873_0051).
- 78) Monolithic active pixel sensors for fast and high resolution vertex detectors
By G. Gaycken et al..
[10.1016/j.nima.2005.11.233](https://doi.org/10.1016/j.nima.2005.11.233).
Nucl.Instrum.Meth. A560 (2006) 44-48.
- 79) First observations of separated atmospheric $\nu(\mu)$ and anti- $\nu(\mu)$ events in the MINOS detector
By MINOS Collaboration (P. Adamson et al.).
hep-ex/0512036.
[10.1103/PhysRevD.73.072002](https://doi.org/10.1103/PhysRevD.73.072002).
Phys.Rev. D73 (2006) 072002.
- 80) High-resolution CMOS sensors for a vertex detector at the Linear Collider
By A. Gay et al..
[10.1016/j.nima.2005.04.033](https://doi.org/10.1016/j.nima.2005.04.033).
Nucl.Instrum.Meth. A549 (2005) 99-102.
- 81) The Upgraded D0 detector
By D0 Collaboration (V.M. Abazov et al.).
physics/0507191 [physics.ins-det].
[10.1016/j.nima.2006.05.248](https://doi.org/10.1016/j.nima.2006.05.248).
Nucl.Instrum.Meth. A565 (2006) 463-537.
- 82) The Muon system of the run II D0 detector
By V.M. Abazov et al..
physics/0503151.

[10.1016/j.nima.2005.07.008](https://doi.org/10.1016/j.nima.2005.07.008).

Nucl.Instrum.Meth. A552 (2005) 372-398.

83) Proceedings, 4th ECFA / DESY Workshop on Physics and Detectors for a 90-GeV to 800-GeV Linear e^+e^- Collider : Amsterdam, Netherlands, April 1-4, 2003

By K. Ackermann et al..

84) The target tracker detector for OPERA experiment

By Target Tracker group (Yuri Gornushkin for the collaboration).

[10.1109/NSSMIC.2004.1462081](https://doi.org/10.1109/NSSMIC.2004.1462081).

85) Monolithic Active Pixel Sensors adapted to future vertex detector requirements

By G. Deptuch et al..

[10.1016/j.nima.2004.07.152](https://doi.org/10.1016/j.nima.2004.07.152).

Nucl.Instrum.Meth. A535 (2004) 366-369.

86) CMOS monolithic active pixel sensors for minimum ionizing particle tracking using non-epitaxial silicon substrate

By W. Dulinski et al..

[10.1109/TNS.2004.832947](https://doi.org/10.1109/TNS.2004.832947).

IEEE Trans.Nucl.Sci. 51 (2004) 1613-1617.

87) Development of monolithic active pixel sensors for charged particle tracking

By G. Deptuch et al..

[10.1016/S0168-9002\(03\)01801-1](https://doi.org/10.1016/S0168-9002(03)01801-1).

Nucl.Instrum.Meth. A511 (2003) 240-249.

88) Radiation hardness improved CMOS sensors as particle detectors in high energy physics and medical applications

By W. Dulinski et al..

89) Monolithic active pixel sensors with on-pixel amplification and double sampling operation

By G. Deptuch, W. Dulinski, Yu. Gornushkin, C. Hu-Guo, I. Valin.

[10.1016/S0168-9002\(03\)01907-7](https://doi.org/10.1016/S0168-9002(03)01907-7).

Nucl.Instrum.Meth. A512 (2003) 299-309.

90) Neutron radiation hardness of monolithic active pixel sensors for charged particle tracking

By M. Deveaux, G. Claus, G. Deptuch, W. Dulinski, Yu. Gornushkin, M. Winter.

[10.1016/S0168-9002\(03\)01878-3](https://doi.org/10.1016/S0168-9002(03)01878-3).

Nucl.Instrum.Meth. A512 (2003) 71-76.

91) Tracking performance and radiation tolerance of monolithic active pixel sensors

By Yu. Gornushkin et al..

[10.1016/j.nima.2003.08.050](https://doi.org/10.1016/j.nima.2003.08.050).

Nucl.Instrum.Meth. A513 (2003) 291-295.

92) The MINOS scintillator calorimeter system

By MINOS Collaboration (P. Adamson et al.).

[10.1109/TNS.2002.1039579](https://doi.org/10.1109/TNS.2002.1039579).

IEEE Trans.Nucl.Sci. 49 (2002) 861-863.

93) Tracking performance and radiation tolerance of CMOS sensors

By M. Winter et al..

94) Test results of monolithic active pixel sensors for charged particle tracking

By Yu. Gornushkin et al..

[10.1016/S0168-9002\(01\)01816-2](https://doi.org/10.1016/S0168-9002(01)01816-2).

Nucl.Instrum.Meth. A478 (2002) 311-315.

95) Monolithic Cmos Pixels for Charged Particle Tracking

By Yu. Gornushkin, G. Deptuch, M. Winter, G. Claus, W. Dulinski.

[10.1142/9789812776464_0028](https://doi.org/10.1142/9789812776464_0028).

96) Monolithic active pixel sensors for a linear collider

By G. Claus et al..

[10.1016/S0168-9002\(01\)01125-1](https://doi.org/10.1016/S0168-9002(01)01125-1).

Nucl.Instrum.Meth. A473 (2001) 83-85.

97) 2001-2004 R \& D programme on monolithic active pixel sensors for charged particle tracking at a future linear collider vertex detector

By G. Deptuch et al..

98) Monolithic active pixel sensors for a linear collider

By G. Deptuch, Yu. Gornushkin, M. Winter, G. Claus, W. Dulinski, D. Husson.

[10.1063/1.1394430](https://doi.org/10.1063/1.1394430).

AIP Conf.Proc. 578 (2001) no.1, 805.

99) Status report on the OPERA experiment

By OPERA Collaboration (M. Guler et al.).

100) Achievements of the first generation of monolithic active pixel sensors for charged particle tracking

By M. Winter, G. Deptuch, Yu. Gornushkin, G. Claus, W. Dulinski.

[10.22323/1.007.0264](https://doi.org/10.22323/1.007.0264).

PoS HEP2001 (2001) 264.

101) CMOS Pixels for a vertex detector at a future linear collider

By Grzegorz Deptuch, Yuri Gornushkin, Marc Winter, Gilles Claus, Wojciech Dulinski.

eConf C010630 (2001) E3055.

102) TESLA: The superconducting electron positron linear collider with an integrated X-ray laser laboratory. Technical design report. Pt. 4: A detector for TESLA

By G. Alexander et al..

103) Design and testing of monolithic active pixel sensors for charged particle tracking

By G. Deptuch et al..

[10.1109/TNS.2002.1003683](https://doi.org/10.1109/TNS.2002.1003683).

IEEE Trans.Nucl.Sci. 49 (2002) 601-610.

104) Monolithic active pixel sensors for high resolution vertex detectors

By J.D. Berst et al..

105) ATLAS: Detector and physics performance technical design report. Volume 2

By ATLAS Collaboration (A. Airapetian et al.).

106) ATLAS: Detector and physics performance technical design report. Volume 1

By ATLAS Collaboration (A. Airapetian et al.).

107) The Hybrid Emulsion Detector for MINOS \& Proposal

By P. Adamson et al..

[10.2172/993206](https://doi.org/10.2172/993206).

108) Track calorimeter (TCAL) of Alpha Magnetic Spectrometer (AMS): A Particle Physics Experiment on the International Space Station Alpha

By Dubna-Kiev-Kharkov-Tbilisi Collaboration (V. Anosov et al.).

- 109) The MINOS Detectors Technical Design Report
By MINOS Collaboration (I. Ambats et al.).
- 110) Forward muon system for the D0 detector upgrade
By V. Abramov et al..
[10.1016/S0168-9002\(98\)00866-3](https://doi.org/10.1016/S0168-9002(98)00866-3).
Nucl.Instrum.Meth. A419 (1998) 660-666.
- 111) Results from an iron proportional tube calorimeter prototype
By P. Schoessow et al..
In *Tucson 1997, Calorimetry in high energy physics* 319-326.
- 112) ATLAS calorimeter performance Technical Design Report
By ATLAS Collaboration (A. Airapetian et al.).
- 113) ATLAS computing technical proposal
By ATLAS Collaboration (A. Airapetian et al.).
- 114) FAMUS off-line software for RUN II - introduction (GEANT, RECO,Level 3)
(FNALD0::TMP\$ROOT400:[EROSHIN.D0_NOTE]NOTE_3087.PS
By D0 Collaboration (D. Denisov et al.).
- 115) BaBar technical design report
By BaBar Collaboration (D. Boutigny et al.).
- 116) Yields of prompt protons and anti-protons in 40-GeV/c pi- Be interactions involving the production of a cumulative particle
By Yu.M. Antipov et al..
Phys.Atom.Nucl. 58 (1995) 798-807, Yad.Fiz. 58 (1995) 863-872.
- 117) ATLAS: Technical proposal for a general-purpose p p experiment at the Large Hadron Collider at CERN
By ATLAS Collaboration (W.W. Armstrong et al.).
- 118) Letter of Intent for the Study of CP Violation and Heavy Flavor Physics at PEP-II
By BaBar Collaboration (D. Boutigny et al.).
- 119) GEM Technical Design Report
By GEM Collaboration (W.C. Lefmann et al.).
[10.2172/10124115](https://doi.org/10.2172/10124115).
- 120) Study of the delta-electron influence on the muon track measurement in the HPDT option of ATLAS muon system
By S. Baranov, Y. Gornushkin, Z. Krumshstein.
- 121) Production of cumulative protons, accompanied by fast rho0 mesons in pi- a interactions at 40-GeV/c
By Yu.M. Antipov et al..
Phys.Atom.Nucl. 57 (1994) 100-111, Yad.Fiz. 57 (1994) 106-118.
- 122) Diffractive excitation of Be nucleus by 40-GeV/c pions accompanied by proton emissions into backward hemisphere
By Yu.M. Antipov et al..
Phys.Atom.Nucl. 56 (1993) 1241-1250, Yad.Fiz. 56 (1993) 157-173.
- 123) Cross-sections of backward proton production in 40-GeV/c pi- (K-, anti-p) A interactions

By Yu.M. Antipov et al..
[10.1016/0375-9474\(92\)90116-2](https://doi.org/10.1016/0375-9474(92)90116-2).
Nucl.Phys. A536 (1992) 637-647.

124) Drell-Yan lepton pair production in anti-proton annihilation for searching of the four quark states
By A.V. Bannikov, Yu.A. Gornushkin, B.Z. Kopeliovich, Z.V. Krumshtein, M.G. Sapozhnikov.

125) Heavy and light meson spectroscopy with an internal target at superLEAR: Letter of intent
By V.G. Ableev et al..

126) GEM Letter of Intent
By GEM Collaboration (R. Steiner et al.).

127) Inclusive Cross-section For Production Of Cumulative Protons In Pi- (k-, Anti-p) A Interactions At 40-gev/c
By Yu.M. Antipov et al..
Sov.J.Nucl.Phys. 53 (1991) 274-281, Yad.Fiz. 53 (1991) 439-450.

128) Search for dibaryon resonances produced in the target fragmentation region with emission of symmetric particle pairs in pi- Be interactions at 43-GeV/c
By Yu.M. Antipov et al..
Sov.J.Nucl.Phys. 53 (1991) 810-816, Yad.Fiz. 53 (1991) 1314-1323.

129) Study of fast p, anti-p yields in pi- Be interaction at 40-GeV/c with cumulative particle production
By Yu.M. Antipov et al..

130) Search for dibaryon resonances in processes with cumulative protons emitted from pi- Be interactions at 40-GeV/c
By Yu.M. Antipov et al..
Sov.J.Nucl.Phys. 53 (1991) 817-823, Yad.Fiz. 53 (1991) 1324-1335.

131) SIGMA-AJAKS facility for the search of dibaryon resonance production in target fragmentation region
By Yu.M. Antipov et al..

132) Estimation of the secondary particles emission range in the cumulative particle productions
By Yu.M. Antipov et al..

133) Letter of Intent to Write a Proposal for an Experiment to be Performed at the SSC by EMPACT/TEXAS
By EMPACT Collaboration (R. Steiner et al.).

134) EMPACT: Electrons Muons Partons as Air Core Toroids: An Expression of Interest for an Experiment to be Performed at the SSC
By EMPACT Collaboration (R. Steiner et al.).

135) Inclusive cross-section of cumulative proton production in pi- (K-, anti-p) Be, Al, Cu, Pb interactions at 40-GeV/c
By Yu.M. Antipov et al..
Submitted to: Yadernaya Fiz..

136) Spectrometer for cumulative particle detection in hadron - nuclear interaction at 40-GeV/c
By Yu.M. Antipov et al..

137) Hadron electron separation by a combined calorimeter
By Yu.M. Antipov, Yu.P. Gorin, Yu.A. Gornushkin, R. Leitner, Guenakh Mitselmakher, A.A. Nozdrin, A.G. Olshevsky, A.I. Petrukhin.

Instrum.Exp.Tech. 34 (1991) 499-504.

138) Fe SCINTILLATOR HODOSCOPIC HADRON CALORIMETER

By Yu.M. Antipov et al..

[10.1016/0168-9002\(90\)90424-5](https://doi.org/10.1016/0168-9002(90)90424-5).

Nucl.Instrum.Meth. A295 (1990) 81-85.

139) The Investigation Of Radiative Scattering $\pi^- p \rightarrow \pi^- p \gamma$ At 43-gev

By SIGMA-AYaKS Collaboration (Yu.M. Antipov et al.).

[10.1209/0295-5075/11/8/006](https://doi.org/10.1209/0295-5075/11/8/006).

Sov.J.Nucl.Phys. 51 (1990) 447-454, Europhys.Lett. 11 (1990) 725-731, Yad.Fiz. 51 (1990) 705-716.

140) Processing Of The Information From Gamma Detector At Sigma-ajax Setup

By Yu.P. Gorin, Yu.A. Gornushkin, V.G. Kartasheva, I.V. Kotov, R. Leitner, A.G. Olszewski, A.I. Petrukhin.

141) Sigma-ajax Setup For The Study Of Elastic $\pi^- p$ And $K^- p$ Scattering

By SIGMA-AJAX Collaboration (A.V. Vishnevsky et al.).

142) ABOUT EXTRAPOLATION OF COUPLING CONSTANT OF VERTEX $\gamma \rightarrow 3 \pi$ TO LOW-ENERGY LIMIT

By Yu.A. Gornushkin.

Sov.J.Nucl.Phys. 50 (1989) 658, Yad.Fiz. 50 (1989) 1055-1057.

143) On Measurement of $\rho^0 \rightarrow \mu^+ \mu^-$ Decay Branching Ratio in Coherent Dissociation Processes $\pi^- \rightarrow \mu^+ \mu^- \pi^-$ and $\pi^- \rightarrow \pi^+ \pi^- \pi^-$

By Yu. M. Antipov et al..

[10.1007/BF01555855](https://doi.org/10.1007/BF01555855).

Z.Phys. C42 (1989) 185.

144) Determination Of The Probability For The Decay $\rho^0 \rightarrow \mu^+ \mu^-$

By Yu.M. Antipov et al..

JETP Lett. 48 (1988) 561-565, Pisma Zh.Eksp.Teor.Fiz. 48 (1988) 519-522.

145) ELASTIC SCATTERING OF π^- AND K^- MESONS ON PROTONS AT 43-GeV/c MOMENTUM By SIGMA-AYaKS and Dubna-Serpukhov-Tbilisi Collaborations (Yu.M. Antipov et al.).

Sov.J.Nucl.Phys. 48 (1988) 85, Yad.Fiz. 48 (1988) 138.

146) Measurement of inclusive cross-sections for production of cumulative protons in π^- , K^- , and anti-p interactions in Be at 40-GeV/c.

By Yu.M. Antipov et al..

Sov.J.Nucl.Phys. 48 (1988) 297-300, Yad.Fiz. 48 (1988) 471-475.

147) Direct Observation Of $\pi_2(1680)$ In The $\rho^0 \pi^-$ System

By Yu. M. Antipov et al..

[10.1209/0295-5075/4/4/004](https://doi.org/10.1209/0295-5075/4/4/004).

Europhys.Lett. 4 (1987) 403-408.

148) Investigation of $\gamma \rightarrow 3 \pi$ Chiral Anomaly During Pion Pair Production by Pions in the Nuclear Coulomb Field

By Yu. M. Antipov et al..

[10.1103/PhysRevD.36.21](https://doi.org/10.1103/PhysRevD.36.21).

Phys.Rev. D36 (1987) 21.

149) Experimental Measurement of the $\gamma \rightarrow 3 \pi$ Coupling Constant

By Yu.M. Antipov et al..

[10.1103/PhysRevLett.56.796](https://doi.org/10.1103/PhysRevLett.56.796).

Phys.Rev.Lett. 56 (1986) 796-799.

150) Observation Of The ρ^0 And π - Mesons Resonant State In The A(3) Region

By Yu.M. Antipov et al..

Sov.J.Nucl.Phys. 45 (1987) 645, Yad.Fiz. 45 (1987) 1041-1046.

151) 'sigma' Spectrometer For Investigation Of π - Meson Dissociation In $\mu^+ \mu^- \pi$ - System Off Nuclei. (in Russian)

By Yu.M. Antipov et al..

Serpukhov Inst. High Energy Phys. - 86-178 (86,REC.FEB.87) 19p.

152) Measurement Of Coupling Constant $\Gamma \rightarrow 3 \pi$ In The Process Of Pion Pair Production By Pions In Nuclear Coulomb Field. (in Russian)

By Yu.M. Antipov et al..

Dubna Jinnr - N11-85 (85,REC.OCT.) 11-19.

153) Study of π^0 Production by Pions in the Nuclear Coulomb Field at Threshold

By Y.M. Antipov et al..

[10.1007/BF01642476](https://doi.org/10.1007/BF01642476).

Z.Phys. C27 (1985) 21.

154) The Investigation Of The Production Of Pionic Pairs By Pions In Nuclei Coulomb Field Near Threshold. (in Russian)

By Yu.M. Antipov et al..

155) Operation Of Multigap Projection Type Spark Chambers

By B.M. Golovin, Yu.A. Gornushkin, V.S. Nadezhdin, N.I. Petrov.

Instrum.Exp.Tech. 25 (1982) 1088-1095.

156) Polarized Target As Analyzer Of Beam Polarization Of Particles With Spin $S = 1/2$. (talk, In Russian)

By B.M. Golovin, M.B. Golubeva, Yu.A. Gornushkin.