

ПУБЛИКАЦИИ В ОФВЭ – 2018 ГОД
Лаборатории физики элементарных частиц

№ п/п	Название публикации (статьи, монографии, пособия и т.д.)	Авторы	Где опубликовано (название журнала, сборника, издательства и т.д.)
<i>Публикации Web of Science</i>			
1.	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s\sqrt{=8}$ TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1802 (2018) 032.
2.	Search for pair production of excited top quarks in the lepton + jets final state.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B778 (2018) 349-370.
3.	Search for ZZ resonances in the $2\ell 2\nu$ final state in proton-proton collisions at 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1803 (2018) 003.
4.	Measurement of the inclusive $t\bar{t}$ cross section in pp collisions at $s\sqrt{=5.02}$ TeV using final states with at least one charged lepton.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1803 (2018) 115.
5.	Search for top squarks and dark matter particles in opposite-charge dilepton final states at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97 (2018) no.3, 032009
6.	Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97 (2018) no.1, 012007.
7.	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78 (2018).
8.	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $s\sqrt{NN}=\sqrt{=5.02}$ and 8.16 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1801 (2018).
9.	Search for supersymmetry in events with at least three	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T.	JHEP 1802 (2018).

	electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s\sqrt{=13}$ TeV	Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	
10.	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $s\sqrt{= 7}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78 (2018)
11.	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1801 (2018).
12.	Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in pp and $p+Pb$ Collisions at the LHC.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120 (2018).
13.	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s\sqrt{= 13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1803 (2018).
14.	Measurements of the $pp\rightarrow ZZ$ production cross section and the $Z\rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $s\sqrt{=13TeV}$.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78 (2018).
15.	Observation of electroweak production of same-sign W boson pairs in the two jet and two same-sign lepton final state in proton-proton collisions at $s\sqrt{= 13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120 (2018).
16.	Inclusive search for a highly boosted Higgs boson decaying to a bottom quark-antiquark pair.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120 (2018).
17.	Search for Higgsino pair production in pp collisions at $s\sqrt{= 13}$ TeV in final states with large missing transverse momentum and two Higgs bosons decaying via $H\rightarrow bb^-$.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97 (2018).
18.	Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at 13TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B777 (2018).
19.	Search for resonant and nonresonant Higgs boson pair production in the $bb\rightarrow \nu\bar{\nu}$ final state in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov,	JHEP 1801 (2018).

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20.	Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton–proton collisions at $s\sqrt{= 13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B778 (2018).
21.	Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton–proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B778 (2018).
22.	Measurements of $t\bar{t}$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $s\sqrt{= 13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B776 (2018)
23.	Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/ c in PbPb collisions at $s\sqrt{NN}=5.02$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B776 (2018).
24.	Search for weakly decaying b -flavored pentaquarks	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97 (2018).
25.	Measurement of CP asymmetry in $B0s \rightarrow D\bar{F}sK\pm$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1803 (2018).
26.	Search for excited $B+c$ states.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1801 (2018).
27.	Updated determination of $D0-D^0$ mixing and CP violation parameters with $D0 \rightarrow K+\pi-$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97 (2018).
28.	First observation of $B^+ \rightarrow D+sK+K-$ decays and a search for $B^+ \rightarrow D+s\phi$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1801 (2018).
29.	Measurement of the ratio of branching fractions $B(B+c \rightarrow J/\psi\tau+v\tau)/B(B+c \rightarrow J/\psi\mu+v\mu)$	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120 (2018).
30.	Measurement of branching fractions of charmless four-body $\Lambda0b$ and $\Xi0b$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1802 (2018).
31.	Measurements of the branching fractions of $\Lambda+c \rightarrow p\pi-\pi+$, $\Lambda+c \rightarrow pK-K+$, and $\Lambda+c \rightarrow p\pi-K+$.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1803 (2018).

32.	Search for the lepton-flavour violating decays $B^0(s) \rightarrow e \pm \mu \tau$.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1803 (2018).
33.	Search for Dark Photons Produced in 13 TeV pp Collisions.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120 (2018).
34.	First observation of forward $Z \rightarrow bb^-$ production in pp collisions at $s\sqrt{=8}$ TeV.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Lett. B776 (2018).
35.	Measurement of CP observables in $B^\pm \rightarrow D(*)K^\pm$ and $B^\pm \rightarrow D(*)\pi^\pm$ decays	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Lett. B777 (2018).
36.	Combined Forward-Backward Asymmetry Measurements in Top-Antitop Quark Production at the Tevatron.	V.M. Abazov, ... G.D. Alkhazov, A.A. Lobodenko, P.V. Neustroev, Yu.A. Scheglov, L.N. Uvarov, S.L. Uvarov, <i>et al.</i>	Phys.Rev.Lett. 120 (2018).
37.	Halo structure of $8B$ determined determined from intermediate energy proton elastic scattering in inverse kinematics.	G.A. Korolev, A.V. Dobrovolsky, A.G. Inglessi G.D. Alkhazov, A.V. Khanzadeev, O.A. Kiselev, G.E. Petrov, A.A. Vorobyov, V.I. Yatsoura	Physics Letters B, 780, 2018.
38.	Halo structure of $8B$ determined from intermediate energy proton elastic scattering in inverse kinematics.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	
39.	Studies of the resonance structure in $D^0 \rightarrow K^* \pi^\pm \pi^\pm \pi^\mp$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78 (2018).
40.	Evidence for the rare decay $\Sigma^+ \rightarrow p \mu^+ \mu^-$.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120 (2018).
41.	Search for the rare decay $\Lambda + c \rightarrow p \mu^+ \mu^-$.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97 (2018).
42.	Test of Lepton Flavor Universality by the measurement of the $B^0 \rightarrow D^* \tau^+ \nu_\tau$ branching fraction using three-prong τ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97 (2018).
43.	Observation of $t\bar{t}H$ production.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A. Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120.
44.	Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A. Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1805.

45.	Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97.
46.	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1806.
47.	Jet properties in PbPb and pp collisions at $s\sqrt{NN}=\sqrt{5.02}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1805.
48.	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1805.
49.	Search for narrow resonances in the b-tagged dijet mass spectrum in proton-proton collisions at $s\sqrt{=8}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120.
50.	Measurement of the Λ_b polarization and angular parameters in $\Lambda_b \rightarrow J/\psi \Lambda$ decays from pp collisions at $s\sqrt{=7}$ and 8 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97.
51.	Search for heavy neutral leptons in events with three charged leptons in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120.
52.	Search for heavy neutral leptons in events with three charged leptons in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120.
53.	Search for natural and split supersymmetry in proton-proton collisions at $s\sqrt{=13}$ TeV in final states with jets and missing transverse momentum.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1805.
54.	Search for natural and split supersymmetry in proton-proton collisions at $s\sqrt{=13}$ TeV in final states with jets and missing transverse momentum.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1805.
55.	Search for single production of vector-like quarks decaying to a b quark and a Higgs boson.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B.	JHEP 1806.

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56.	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\mu$ final states in proton-proton collisions at $s\sqrt{=13}$ TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1804.
57.	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $s\sqrt{=13}$ TeV/.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1806.
57.	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $s\sqrt{= 13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1805.
59.	Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 120.
60.	Bose-Einstein correlations in pp,pPb , and PbPb collisions at $sNN\sqrt{=0.9-7}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. C97.
61.	Search for lepton flavour violating decays of the Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $s\sqrt{= 13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1806.
62.	Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JINST 13.
63.	Measurement of the associated production of a single top quark and a Z boson in pp collisions at $s\sqrt{=}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B779.
64.	Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D97.
65.	Search for new long-lived particles at $s\sqrt{= 13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B780.

66.	Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at $s\sqrt{=} 13$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B780.
67.	Search for excited quarks of light and heavy flavor in γ +jet final states in proton–proton collisions at $s\sqrt{=} 13$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B781.
68.	Measurement of associated Z + charm production in proton-proton collisions at $s\sqrt{=} 8$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78.
69.	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton–proton collisions at $s\sqrt{=} 13$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78.
70.	Observation of Higgs boson decay to bottom quarks.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121 (2018).
71.	QCD Evolution of Nuclear Structure Functions at Large X: EMC Effect and Cumulative Processes.	V.T. Kim	Phys.Part.Nucl.Lett. 15 (2018).
72.	Measurement of charged particle spectra in minimum-bias events from proton–proton collisions at $s\sqrt{=}13$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78 (2018).
73.	Search for dark matter produced in association with a Higgs boson decaying to $\gamma\gamma$ or $\tau\tau$ at $s\sqrt{=} 13$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1809 (2018)
74.	Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1808 (2018)
75.	Search for a singly produced third-generation scalar leptoquark decaying to a τ lepton and a bottom quark in proton-proton collisions at $s\sqrt{=} 13$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1807 (2018).
76.	Search for narrow and broad dijet resonances in proton-proton collisions at $s\sqrt{=}13$ TeV and constraints on dark matter mediators and other new particles.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1808 (2018).

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78.	Observation of the $\chi_{b1}(3P)$ and $\chi_{b2}(3P)$ and measurement of their masses.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121(2018).
79.	Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $s\sqrt{=}$ 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D98 (2018).
80.	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two τ leptons in proton-proton collisions at $s\sqrt{=}$ 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B785 (2018)
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83.	Constraining gluon distributions in nuclei using dijets in proton-proton and proton-lead collisions at $s\sqrt{NN} \sqrt{=}$ 5.02 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121 (2018).
84.	Elliptic flow of charm and strange hadrons in high-multiplicity pPb collisions at $s\sqrt{NN} \sqrt{=}$ 8.16 TeV .	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121 (2018).
85.	Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $s\sqrt{=}$ 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1808 (2018).
86.	Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ final state in proton-proton collisions at $s\sqrt{=}$ 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1809 (2018).
87.	Search for high-mass resonances in dilepton final states in proton-proton collisions at $s\sqrt{=}$ 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B.	JHEP 1806 (2018).

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89.	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1807 (2018).
90.	Search for a heavy resonance decaying into a Z boson and a vector boson in the $\nu\nu$ $q\bar{q}$ final state.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1807 (2018).
91.	Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $s\sqrt{=}$ 13 TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78 (2018).
92.	Measurement of the inelastic proton-proton cross section at $s\sqrt{=}$ 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1807 (2018).
93.	Measurement of the $Z\gamma^* \rightarrow \tau\tau$ cross section in pp collisions at $s\sqrt{=}$ 13 TeV and validation of τ lepton analysis techniques.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78 (2018).
94.	Electroweak production of two jets in association with a Z boson in proton–proton collisions at $s\sqrt{=}$ 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78 (2018).
95.	Search for R -parity violating supersymmetry in pp collisions at $s\sqrt{=}$ 13 TeV using b jets in a final state with a single lepton, many jets, and high sum of large-radius jet masses.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B783 (2018).
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97.	Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $s\sqrt{NN}=\sqrt{=}$ 5.02 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Lett. B785 (2018).

98.	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1807 (2018).
99.	Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $s\sqrt{= 13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1808 (2018).
100.	Measurement of the Ω_{cc} baryon lifetime.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121 (2018).
101.	Measurement of angular and CP asymmetries in $D^0 \rightarrow \pi^+ \pi^- \mu^+ \mu^-$ and $D^0 \rightarrow K^+ K^- \mu^+ \mu^-$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121 (2018).
102.	Observation of the decay $B^{\prime\prime} 0_s \rightarrow \chi_c 2K^+ K^-$ in the ϕ mass region.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1808 (2018).
103.	Observation of the decay $\Lambda^0 b \rightarrow \psi(2S) p \pi^-$.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1808 (2018).
104.	Measurement of the Lifetime of the Doubly Charmed Baryon Ξ_{cc} .	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121 (2018).
105.	Measurement of the CKM angle γ using $B^{\pm} \rightarrow DK^{\pm}$ with $D \rightarrow K^0 S \pi^+ \pi^-$, $K^0 S K^+ K^-$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1808 (2018).
106.	Measurement of $D^{\pm s}$ production asymmetry in pp collisions at $s\sqrt{=7}$ and 8 TeV.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1808 (2018).
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108.	Measurement of CP asymmetries in two-body $B^0(s)$ -meson decays to charged pions and kaons.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	Phys.Rev. D98 (2018)
109.	Search for CP violation using triple product asymmetries in $\Lambda^0 b \rightarrow p K^- \pi^+ \pi^-$, $\Lambda^0 b \rightarrow p K^- K^+ K^-$ and $\Xi^0 b \rightarrow p K^- K^- \pi^+$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Shcheglov, A.A. Vorobyov, <i>et al.</i>	JHEP 1808 (2018).
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113.	Measurement of antiproton production in pHe collisions at $s_{NN} = \sqrt{s} = 110$ GeV.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121
114.	Search for CP violation in $\Lambda^0 b \rightarrow p K^-$ and $\Lambda^0 b \rightarrow p \pi^-$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, <i>et al.</i>	Phys.Lett. B787
115.	Observation of $B^0_s \rightarrow D^{*0} \phi$ and search for $B^0 \rightarrow D^{*0} \phi$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, <i>et al.</i>	Phys.Rev. D98.
116.	First Observation of the Doubly Charmed Baryon Decay $\Xi_{cc}^{++} \rightarrow \Xi^+ c \pi^+$.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121.
117.	Search for beautiful tetraquarks in the $\Upsilon(1S) \mu^+ \mu^-$ invariant-mass spectrum.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, <i>et al.</i>	JHEP 1810.
118.	Central exclusive production of J/ψ and $\psi(2S)$ mesons in pp collisions at $s = \sqrt{s} = 13$ TeV.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, <i>et al.</i>	JHEP 1810.
119.	Measurement of the time-integrated CP asymmetry in $D^0 \rightarrow K^0_S K^0_S$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, <i>et al.</i>	JHEP 1811.
120.	Measurement of the CKM angle γ using $B^{\pm} \rightarrow DK^{\pm}$ with $D \rightarrow K^0_S \pi^+ \pi^-$, $K^0_S K^+ K^-$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, <i>et al.</i>	JHEP 1808.
121.	Studies of $B^*_{s2}(5840)^0$ and $B_{s1}(5830)^0$ mesons including the observation of the $B^*_{s2}(5840)^0 \rightarrow B^0 K^0_S$ decay in proton-proton collisions at $s = \sqrt{s} = 8$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78.
122.	Performance of reconstruction and identification of τ leptons decaying to hadrons and $\nu\tau$ in pp collisions at $s = \sqrt{s} = 13$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JINST 13.
123.	Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $s = \sqrt{s} = 13$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D98.
124.	Charged-particle nuclear modification factors in XeXe collisions at $s_{NN} = \sqrt{s} = 5.44$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1810.
125.	Measurement of jet substructure observables in $t\bar{t}$ events from proton-proton collisions at $s = \sqrt{s} = 13$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D98.
126.	Search for a charged Higgs boson decaying to charm and	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T.	JHEP 1811.

	bottom quarks in proton-proton collisions at $s\sqrt{=8}$ TeV.	Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	
127.	Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev. D98.
128.	Evidence for the associated production of a single top quark and a photon in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121.
129.	Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1811.
130.	Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1811.
131.	Precision measurement of the structure of the CMS inner tracking system using nuclear interactions.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JINST 13.
132.	Precision measurement of the structure of the CMS inner tracking system using nuclear interactions.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JINST 13.
133.	Search for supersymmetry in events with a τ lepton pair and missing transverse momentum in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1811.
134.	Search for the decay of a Higgs boson in the $\ell\ell\gamma$ channel in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1811.
133.	Observation of the $Z\rightarrow\mu\ell+\ell^-$ decay in pp collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Phys.Rev.Lett. 121.
134.	Search for pair-produced resonances each decaying into at least four quarks in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov,	Phys.Rev.Lett. 121.

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135.	Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1810.
136.	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1811.
137.	Measurement of the groomed jet mass in PbPb and pp collisions at $s\sqrt{NN}=\sqrt{=5.02}$ TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1810.
138.	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two τ leptons in proton-proton collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	JHEP 1811.
139.	Measurement of the top quark mass with lepton+jets final states using p p collisions at $s\sqrt{=13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78.
140.	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $s\sqrt{= 13}$ TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	Eur.Phys.J. C78.

ЛАБОРАТОРИЯ РЕЛЯТИВИСТСКОЙ ЯДЕРНОЙ ФИЗИКИ –

Опубликованные в журналах статьи в 2018

1	03.09	JHEP 1809 (2018) 006	Anisotropic flow of identified particles in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	ALICE Coll. ,PNPI- (V.Ivanov, E.Kryshen, A.Khazadeev, M.Malaev, V.Nikulin, V.Riabov, Yu.Riabov, V.Samsonov, M.Zhalov)
2	09.10	JHEP 1810 (2018) 061	Measurements of low-pT electrons from semileptonic heavy-flavour hadron decays at mid-rapidity in pp and Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV	ALICE Coll.
3	25.07	JHEP 1807 (2018) 160	Inclusive J/ψ production at forward and backward rapidity in p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV	ALICE Coll.
4	09.07	Eur.Phys.J. C78 (2018) no.7, 562	Measurement of the inclusive J/ ψ polarization at forward rapidity in pp collisions at $\sqrt{s}=8$ TeV	ALICE Coll.
5	10.10	Phys.Lett. B785 (2018) 419-428	Inclusive J/ψ production in Xe-Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV	ALICE Coll.
6	12.09	JHEP 1809 (2018) 064	Dielectron production in proton-proton collisions at $\sqrt{s}=7$ TeV	ALICE Coll.
7	10.09	Phys.Lett. B784 (2018) 82-95	Anisotropic flow in Xe-Xe collisions at $\sqrt{s_{NN}}=5.44$ TeV	ALICE Coll.
8	07.07	Eur.Phys.J. C78 (2018) no.7, 559	ϕ meson production at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV	ALICE Coll.
9	16.07	JHEP 1807 (2018) 103	Energy dependence and fluctuations of anisotropic flow in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ and 2.76 TeV	ALICE Coll.
10	10.10	Phys.Lett. B785 (2018) 320-331	Azimuthally-differential pion femtoscopy relative to the third harmonic event plane in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	ALICE Coll.
11	04.10	Phys.Rev. C98 (2018) no.4, 044901	Neutral pion and η meson production at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	ALICE Coll.
12	08.02	Eur.Phys.J. C78 (2018) no.6, 466	Prompt and non-prompt J/ ψ production and nuclear modification at mid-rapidity in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	ALICE Coll.
13	06.03	Eur.Phys.J. C78 (2018) no.8, 624	Neutral pion and η meson production in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	ALICE Coll.
14	18.04	JHEP 1804 (2018) 108	Λ_c production in pp collisions at $\sqrt{s}=7$ TeV and in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	ALICE Coll.
15	10.05	Phys.Lett. B783 (2018) 95-113	Constraints on jet quenching in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV measured by the event-activity dependence of semi-inclusive hadron-jet distributions	ALICE Coll.
16	10.06	Phys.Lett. B781 (2018) 8-19	First measurement of Ξ_c production in pp collisions at $\sqrt{s} = 7$ TeV	ALICE Coll.
17	10.07	Phys.Lett. B780 (2018) 372-383	Measurement of Z0-boson production at large rapidities in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	ALICE Coll.

18	10.06	Phys.Lett. B781 (2018) 20-32	Longitudinal asymmetry and its effect on pseudorapidity distributions in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	ALICE Coll.
19	06.03	Nucl.Phys. A971 (2018) 1-20	Production of 4He and anti- 4He in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV at the LHC	ALICE Coll.
20	21.02	Phys.Rev. C97 (2018) no.2, 024615	Production of deuterons, tritons, 3He nuclei and their antinuclei in pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV	ALICE Coll.
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22	10.02	Phys.Lett. B777 (2018) 151-162	Constraining the magnitude of the Chiral Magnetic Effect with Event Shape Engineering in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	ALICE Coll.
23	11.02	Nucl.Instrum.Meth. A881 (2018) 88-127	The ALICE Transition Radiation Detector: construction, operation, and performance	ALICE Coll.
24	12.02	Phys.Rev. C97 (2018) no.2, 024906	Systematic studies of correlations between different order flow harmonics in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV	ALICE Coll.
25	26.03	Eur.Phys.J. C78 (2018) no.3, 263	π^0 and η meson production in proton-proton collisions at $\sqrt{s}=8$ TeV	ALICE Coll.
26	09.03	Phys.Rev.Lett. 120 (2018) no.10, 102301	D-meson azimuthal anisotropy in midcentral Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	ALICE Coll.
27	10.01	Phys.Lett. B776 (2018) 91-104	J/ψ production as a function of charged-particle pseudorapidity density in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	ALICE Coll.
28	10.01	Phys.Lett. B776 (2018) 249-264	First measurement of jet mass in Pb-Pb and p-Pb collisions at the LHC	ALICE Coll.
29	22.10	JHEP 1810 (2018) 139	Medium modification of the shape of small-radius jets in central PbPb collisions at 2.76 TeV	ALICE Coll.
30	30.07	Phys.Rev. D98 (2018) no.1, 012006	Single-spin asymmetry of J/ψ production in pp, pAl, and pAu collisions with transversely polarized proton beams at $\sqrt{s_{NN}}=200$ GeV	PHENIX Coll-n, PNPI - (D.Ivanishev, D.Kotov, B.Komkov, A.Khanzadeev, V.Riabov, Yu.Riabov. V.Samsonov)
31	14.08	Phys.Rev. D98 (2018) no.3, 032007	Cross section and longitudinal single-spin asymmetry AL for forward $W^{\pm} \rightarrow \mu^{\pm} \nu$ production in polarized pp collisions at $\sqrt{s}=510$ GeV	PHENIX Collaboration
32	26.07	Phys.Rev. C98 (2018) no.1, 014912	Measurement of emission angle anisotropy via long-range angular correlations with high pT hadrons in d+Au and p+p collisions at $\sqrt{s_{NN}}=200$ GeV	PHENIX Collaboration
33	11.06	Phys.Rev. C97 (2018) 064904	Measurements of mass-dependent azimuthal anisotropy in central p+Au, d+Au, and $3\text{He}+\text{Au}$ collisions at $\sqrt{s_{NN}}=200$ GeV	PHENIX Collaboration
34	14.06	Phys.Rev. C97 (2018) no.6, 064911	Lévy-stable two-pion Bose-Einstein correlations in $\sqrt{s_{NN}}=200$ GeV Au++Au collisions	PHENIX Collaboration
35	06.0	Phys.Rev.Lett. 120	Measurements of Multiparticle Correlations	PHENIX

5	2	(2018) no.6, 062302	in d+Au Collisions at 200, 62.4, 39, and 19.6 GeV and p+Au Collisions at 200 GeV and Implications for Collective Behavior	Collaboration
3 6	08.0 1	Phys.Rev.Lett. 120 (2018) no.2, 022001	Nuclear Dependence of the Transverse-Single-Spin Asymmetry for Forward Neutron Production in Polarized p+A Collisions at $\sqrt{s_{NN}}=200$ GeV	PHENIX Collaboration
3 7	17.1 0	Phys.Rev. D98 (2018) 072004	Nonperturbative transverse-momentum-dependent effects in dihadron and direct photon-hadron angular correlations in pp collisions at $\sqrt{s}=200$ GeV	PHENIX Collaboration
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3 8	10.0 7	Phys.Lett. B782 (2018) 251-255	Photoproduction of light vector mesons in Xe–Xe ultraperipheral collisions at the LHC and the nuclear density of Xe-129	V. Guzey, E.Kryshen, M.Zhalov
3 9	15.0 4	Acta Phys.Polon. B49 (2018) 741-784	Nucleon and nuclear structure through dilepton production	I.V. Anikin <i>et al.</i> Guzey,V.
4 0	18.0 4	Eur.Phys.J. C78 (2018) no.4, 309	First global next-to-leading order determination of diffractive parton distribution functions and their uncertainties within the xFitter framework	Muhammad Goharipour , Hamzeh Khanpour (IPM, Tehran), Vadim Guzey (Jyvaskyla U. & St. Petersburg, INP)
4 1	04.0 1	Eur.Phys.J. C78 (2018) no.1, 7	Effects of next-to-leading order DGLAP evolution on generalized parton distributions of the proton and deeply virtual Compton scattering at high energy	Hamzeh Khanpour (IPM, Tehran), Muhammad Goharipour (Islamic Azad U.), Vadim Guzey (St. Petersburg, INP)
4 2	29.1 1	Phys. Rev. Lett. 121, 222301, 2018	Pseudorapidity Dependence of Particle Production and Elliptic Flow in Asymmetric Nuclear Collisions of p+Al, p+Au, d+Au, and 3He+Au at $\sqrt{s_{NN}}=200$ GeV	PHENIX Collaboration
4 3	19.1 1	Phys. Rev. C 98, 054903,2018	Production of π^0 and η mesons in Cu+Au collisions at $\sqrt{s_{NN}}=200$ GeV	PHENIX Collaboration
4 4	29.1 0	JHEP 1810 (2018) 174	Measurement of D^0 , D^+ , D^{*+} and D_s^+ production in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV	ALICE Collaboration
4 5	06.1 1	JHEP 1811 (2018) 013	Transverse momentum spectra and nuclear modification factors of charged particles in pp, p-Pb and Pb-Pb collisions at the LHC	ALICE Collaboration
4 6	09.1 1	Phys. Rev. D 98, 092006,2018	Measurement of ϕ -meson production at forward rapidity in p+p collisions at $\sqrt{s}=510$ GeV and its energy dependence from $\sqrt{s}=200$ GeV to 7 TeV	PHENIX Collaboration

Печатные публикации с участием сотрудников Лаборатории кристаллооптики ОФВЭ в 2018 году.

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V.V. Skorobogatov, ..., Focusing of a particle beam by a crystal device with a short focal length, Nuclear Inst. and Methods in Physics Research B 414 (2018) 104–106

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2. V. Sokhoyan for "Proton" collaboration, "High-precision Measurement of the Proton Radius with TPC", talk and proceedings at the Workshop "Precision Measurements and Fundamental Physics: The Proton Radius Puzzle and Beyond" (Mainz) 2018.
3. R. Engels for PolFusion collaboration. Advantages of Nuclear Fusion with Polarized Fuel. 23d International Symposium, SPIN2018, Ferrara Italy. Proceedings will be Scopus publication.
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1. Petr V. Fedchenkov, Sergey E. Khoruzhnikov, Nikita Y. Samokhin, Andrey Y. Shevel

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Selected Papers of the 8th International Conference "Distributed Computing and Grid-technologies in Science and Education"

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2. Petr V. Fedchenkov, Nikita Y. Samokhin, Sergey E. Khoruzhnikov, Oleg I. Lazo, Andrey Y. Shevel

Approaches to the automated deplovment of the cloud infrastructure of geographically distributed data centers

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