

**Публикации за 2019 год лаборатории физики элементарных частиц**

1	Skewed Sudakov Regime, Harmonic Numbers, and Multiple Polylogarithms.	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. D99 (2019)
2	Inclusive search for supersymmetry in pp collisions at $s\sqrt{=}$ 13 TeV using razor variables and boosted object identification in zero and one lepton final states.	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 1903.
3.	Search for supersymmetry in events with a photon, a lepton, 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 1901.
4.	Search for long-lived particles decaying into displaced jets 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. D99.
5.	Measurements of $t\bar{t}$ differential cross sections in proton-proton collisions at $s\sqrt{=}$ 13 TeV using events containing two leptons.	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 1902.
6.	Search for pair production of first-generation scalar leptoquarks 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. D99.

7.	Search for low-mass resonances decaying into bottom 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>	Phys.Rev. D99.
8.	Search for rare decays of Z and Higgs bosons to $J/\psi$ 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>	Eur.Phys.J. C79.
9.	Search for pair-produced three-jet resonances 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. D99.
10.	Observation of prompt $J/\psi$ meson elliptic flow 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.Lett. B791.
11.	Search for new physics in final states with a single photon 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 1902
12.	Search for single production of vector-like quarks decaying to a top quark and a W 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. C79
13.	Search for pair production of second-generation leptoquarks 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,	Phys.Rev. D99.

		V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, <i>et al.</i>	
14.	Search for production of Higgs boson pairs in the four b quark final state using large-area jets 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 1901.
15.	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson 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>	JHEP 1901.
16.	Search for narrow $H\gamma$ resonances 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. 122.
17.	Search for dark matter particles produced in association with a top quark pair 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. 122.
18.	Search for the Higgs boson decaying to two muons 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. 122.
19.	Study of the underlying event in top quark pair production in <b>pp</b> 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>	Eur.Phys.J. C79.
20.	Measurement of differential cross sections for	S. Chatrchyan,... A.A. Vorobyov, V.L.	Eur.Phys.J. C79.

	inclusive isolated-photon and photon+jets production in proton-proton collisions at $s\sqrt{=}$ 13 TeV.	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>	
21.	Measurement of differential cross sections for Z boson pair production in association with jets at $s\sqrt{=}$ 8 and 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. B789,
22.	Search for heavy Majorana neutrinos in same-sign dilepton channels 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 1901.
23.	Search for supersymmetric partners of electrons and muons 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. B790.
24.	Measurements of properties of the Higgs boson decaying to a W boson pair 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.Lett. B791.
25.	Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state 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.Lett. B788.
26.	Measurement of nuclear modification factors of Y(1S), Y(2S), and Y(3S) mesons in PbPb 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,	Phys.Lett. B790

		An.A. Vorobyov, <i>et al.</i>	
27.	Measurement of prompt $\psi(2S)$ production cross sections in proton-lead and proton-proton 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. B790.
28.	Search for $t\bar{t}H$ production in the $H \rightarrow b\bar{b}$ decay channel with leptonic $t\bar{t}$ decays 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 1903.
29.	Search for $CP$ violation through an amplitude analysis of $D^0 \rightarrow K^+K^-\pi^+\pi^-$ 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 1902.
30.	Measurement of the Charm-Mixing Parameter $y_{CP}$ .	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. 122.
31.	Observation of Two Resonances in the $\Lambda^0 b \pi^\pm$ Systems and Precise Measurement of $\Sigma^\pm b$ and $\Sigma^* \pm b$ properties.	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. 122
32.	Prompt $\Lambda^+ c$ production in $pPb$ collisions at $s\sqrt{NN} = 5.02$ 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 1902.
33.	Observation of Two Excited $B+c$ States and Measurement of the $B+c(2S)$ Mass 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.Rev.Lett. 122.
34.	Search for W boson decays to three charged pions.	S. Chatrchyan, ... A.A. Vorobyov, V.L.	Phys.Rev.Lett. 122.

		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, et al.	
35.	Search for supersymmetry in events with a photon, jets, b -jets, 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, et al.	Eur.Phys.J. C79.
36.	Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross section and constraints on charged anomalous triple gauge couplings 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, et al.	JHEP 1904.
37.	Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton 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, et al.	Phys.Rev. D99.
38.	Measurement of the top quark mass in the all-jets final state at $s\sqrt{=}$ 13 TeV and combination with the lepton+jets channel.	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, et al.	Eur.Phys.J. C79.
39.	Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events 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, et al.	Eur.Phys.J. C79.
40.	Search for contact interactions and large extra dimensions in the dilepton mass spectra 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,	JHEP 1904.

		An.A. Vorobyov, et al.	
41.	Search for vector-like quarks in events with two oppositely charged leptons and jets 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, et al.	Eur.Phys.J. C79.
42.	Measurement and interpretation of differential cross sections for Higgs boson production 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, et al.	Phys.Lett. B792.
43.	Observation of Single Top Quark Production 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, et al.	Phys.Rev.Lett. 122.
44.	Measurement of the energy density as a function of pseudorapidity 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, et al.	Eur.Phys.J. C79.
45.	Measurement of inclusive very forward jet cross sections in 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, et al.	JHEP 1905.
46.	Search for associated production of a Higgs boson and a single top quark in proton-proton 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, et al.	Phys.Rev. D99.
47.	Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko,	Phys.Lett. B793.

	final state in proton-proton collisions at $s\sqrt{=}$ 8 and 13 TeV.	V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	
48.	Search for excited leptons in $\ell\ell\gamma$ 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, et al.	JHEP 1904.
49.	Search for nonresonant Higgs boson pair production in the $bb\bar{b}\bar{b}$ final state 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, et al.	JHEP 1904.
50.	Search for resonant $t\bar{t}$ production 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, et al.	JHEP 1904.
51.	Observation of prompt $J/\psi$ meson elliptic flow in high-multiplicity pPb collisions at $s_{NN}\sqrt{=}$ 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, et al.	Phys.Lett. B791.
52.	Combined measurements of Higgs boson couplings in proton-proton collisions 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, et al.	Eur.Phys.J. C79.
53.	Jet Shapes of Isolated Photon-Tagged Jets in Pb-Pb and pp Collisions at $s_{NN}\sqrt{=}$ 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, et al.	Phys.Rev.Lett. 122.



54.	Search for invisible decays of a Higgs boson produced through vector boson fusion 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, et al.	Phys.Lett. B793.
55.	Search for an $L_{\mu}-L_{\tau}$ gauge boson using $Z\rightarrow 4\mu$ 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, et al.	Phys.Lett. B792.
56.	Search for a $W'$ boson decaying to a $\tau$ lepton and a neutrino 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, et al.	Phys.Lett. B792.
57.	Observation of a narrow pentaquark state, $P_c(4312)^+$ , and of two-peak structure of the $P_c(4450)^+$ .	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev.Lett. 122.
58.	Observation of an excited $B+c$ state.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev.Lett. 122.
59.	Search for lepton-universality violation in $B^+\rightarrow K+\ell+\ell^-$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev.Lett. 122.
60.	Observation of CP violation in charm decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev.Lett. 122.
61.	Measurement of the mass difference between neutral charm-meson eigenstates.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev.Lett. 122.
62.	Search for CP violation in $D^+s\rightarrow K^0S\pi^+$ , $D^+\rightarrow K^0SK^+$ and $D^+\rightarrow\phi\pi^+$ decays.	R. Aaij,... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev.Lett. 122.

63.	Dalitz plot analysis of the $D^+ \rightarrow K^- K^+ K^+$ decay.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	JHEP 1904.
64.	Observation of $B^0(s) \rightarrow J/\psi p \bar{p}$ decays and precision measurements of the $B^0(s)$ masses.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev.Lett. 122.
65.	Observation of the doubly Cabibbo-suppressed decay $\Xi^+ c \rightarrow p \phi$ .	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	JHEP 1904.
66.	Model-Independent Observation of Exotic Contributions to $B^0 \rightarrow J/\psi K^+ \pi^-$ Decays.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev.Lett. 122.
67.	Study of the $B^0 \rightarrow \rho(770) \rho(892) K^*$ decay with an amplitude analysis of $B^0 \rightarrow (\pi^+ \pi^-) (K^+ \pi^-)$ decays.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	JHEP 1905.
68.	First Measurement of Charm Production in its Fixed-Target Configuration at the LHC.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev.Lett. 122.
69.	Measurement of the relative $B^- \rightarrow D^0/D^{*0}/D^{*0} \mu^- \bar{\nu}_\mu$ branching fractions using $B^-$ mesons from $B^- \rightarrow D^{*0} \rho^-$ decays.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, A.A. Vorobyov, et al.	Phys.Rev. D99.
70	Nuclear-matter distribution in the proton-rich nuclei $^7\text{Be}$ and $^8\text{B}$ from intermediate energy proton elastic Scattering in inverse kinematics	A.V/Dobrovolsky, G.A.Korelev, A.G.Inglessi, G.D.Alkhazov, G.Colo, I.Dillmann, P.Egelhof, A.Estrade, F.Farion, H.Geissel, S.Ilieva, Y.Ke, A.V.Khanzadeev, O.A.Kiselev, J.Kurcewicz, X.C.Le, Yu.A.Litvinov, G.E.Petrov, A.Prochazka, C.Scheidenberger, L.O.Sergeev, H.Simon, V.Takechi, S.Tang, V. Volkov, A.A.Vorobyev, H.Weick, V.I.Yatsoura	Nucl.Phys. A989 (2019) 40-58
71.	Properties of $Z_{\pm c}(3900)$ produced in $pp^-$ collision.	V.M. Abazov, ... G.D. Alkhazov, A.A. Lobodenko, P.V. Neustroev, Yu.A. Scheglov, L.N.	Phys.Rev. D100 (2019)

		Uvarov, S.L. Uvarov, et al.	
72.	Skewed Sudakov Regime at One Loop.	V.T. Kim, G.B. Pivovarov	Phys.Part.Nucl.Lett. 16 (2019).
73	QCD Asymptotics at Collider Energies.	V.T. Kim	Phys.Part.Nucl.Lett. 16.
	Search for long-lived particles using nonprompt jets and missing transverse momentum with 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, et al.	Phys.Lett. B797 (2019)
74.	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton 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, et al.	JHEP 1908.
75.	Search for vector-like leptons in 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. Levtchenko, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	Phys.Rev. D100.
76.	Search for a light charged Higgs boson decaying to a W boson and a CP-odd Higgs boson in final states with $e\mu\mu$ or $\mu\mu\mu$ 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, et al.	Phys.Rev.Lett. 123.
77.	Search for the production of $W^\pm W^\pm W^\mp$ events 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, et al.	Phys.Rev. D100.
78.	Performance of missing transverse momentum reconstruction in proton-proton collisions at $s\sqrt{=} =$ 13 TeV using the CMS detector.	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,	JINST 14.

		An.A. Vorobyov, et al.	
79.	Search for charged Higgs bosons in the $H^\pm \rightarrow \tau^\pm \nu_\tau$ decay 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, et al.	JHEP 1907.
80.	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson 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, et al.	Eur.Phys.J. C79.
81.	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events 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, et al.	Eur.Phys.J. C79
82.	Measurement of exclusive $\rho(770)^0$ photoproduction in ultraperipheral pPb collisions at $s_{NN}\sqrt{=} 5.02$ 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, et al.	Eur.Phys.J. C79.
83.	Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp 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, et al.	Phys.Lett. B795.
84.	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 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, et al.	Phys.Lett. B795.
85.	A search for pair production of new light bosons decaying into muons in proton-proton collisions at 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, et al.	Phys.Lett. B796.

86.	Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV.	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, et al.	Phys.Lett. B795.
87.	Observation of the $\Lambda_0 b \rightarrow \chi c 1(3872) p K^-$ decay.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	JHEP 1909.
88.	Measurement of CP observables in the process $B_0 \rightarrow DK^*0$ with two- and four-body D decays.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	JHEP 1909.
89.	Updated measurement of time-dependent $\{it CP\}$ -violating observables in $B_0 s \rightarrow J/\psi K^+ K^-$ decays.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	Eur.Phys.J. C79.
90.	Precision measurement of the $\Lambda^+ c$ , $\Xi^+ c$ and $\Xi_0^+ c$ baryon lifetimes.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	Phys.Rev. D100.
91.	Amplitude analysis of the $B_0(s) \rightarrow K^*0 K^{\overline{0}}$ decays and measurement of the branching fraction of the $B_0 \rightarrow K^*0 K^{\overline{0}}$ decay.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	JHEP 1907.
92.	Measurement of CP-violating and mixing-induced observables in $B_0 s \rightarrow \phi \gamma$ decays.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	Phys.Rev.Lett. 123
93.	First Observation of the Radiative Decay $\Lambda_0 b \rightarrow \Lambda \gamma$ .	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	Phys.Rev.Lett. 123.
94.	Near-threshold $DD^{\overline{}}$ spectroscopy and observation of a new charmonium state.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	JHEP 1907.
95.	Measurements of CP asymmetries in charmless four-body $\Lambda_0 b$ and $\Xi_0 b$ decays.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	Eur.Phys.J. C79.
96.	Measurement of the CP-violating phase $\phi_s$ from $B_0 s \rightarrow J/\psi \pi^+ \pi^-$ decays in 13 TeV pp collisions.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R.	Phys.Lett. B797.

		Sagidova, Yu.A. Vorobyov, et al.	
97.	Measurement of b hadron fractions in 13 TeV pp collisions.	R. Aaij, ... G.D. Alkhazov, N.F. Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	Phys.Rev. D100.
98.	Search for the rare decay $B^+ \rightarrow \mu^+ \mu^- \mu^+ \nu_\mu$ .	R. Aaij, ... G.D. Alkhazov, N.F. Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, Yu.A. Vorobyov, et al.	Eur.Phys.J. C79
99.	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum.	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, et al.	JHEP 1910 (2019)
100.	Search for dark photons in decays of Higgs bosons produced in association with Z bosons 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, et al.	JHEP 1910 (2019)
101.	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities 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, et al.	Eur.Phys.J. C79 (2019)
102.	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at $s\sqrt{= 8}$ 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, et al.	Eur.Phys.J. C79(2019)
103.	Measurement of the top quark polarization and $t\bar{t}$ spin correlations using 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. Smirnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	Phys.Rev. D100 (2019)
104.	Search for MSSM Higgs bosons decaying to $\mu^+ \mu^-$ in	S. Chatrchyan, ... A.A. Vorobyov, V.L.	Phys.Lett. B798 (2019).

	proton-proton collisions at $s\sqrt{= 13}$ TeV Search for MSSM Higgs bosons decaying to $\mu + \mu -$ in proton-proton collisions at $s=13$ TeV.	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, et al.	
105	Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the lepton+jets 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, et al.	Phys.Rev. D100 (2019).
106.	Search for pair production of vectorlike quarks in the fully hadronic 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, et al.	Phys.Rev. D100 (2019).
107.	Search for long-lived particles using nonprompt jets and missing transverse momentum with 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, et al.	Phys.Lett. B797 (2019).
108.	Search for long-lived particles using nonprompt jets and missing transverse momentum with 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, et al.	Phys.Lett. B797 (2019).
109.	Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons.	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, et al.	Phys.Lett. B798 (2019)
110.	Search for Higgs and Z boson decays to $J/\psi$ or $Y$ pairs in proton-proton collisions at $s\sqrt{= 13}$ TeV Search for Higgs and Z boson decays to $J/\psi$ or $Y$ pairs in the four-muon final state in proton-proton	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.Lett. B797 (2019).

	collisions at $s=13\text{TeV}$ .	An.A. Vorobyov, et al.	
111.	Search for anomalous electroweak production of vector boson pairs in association with two jets 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, et al.	Phys.Lett. B798 (2019).
112.	Search for resonances decaying to a pair of Higgs bosons in the $bb\bar{q}q\bar{\ell}\nu$ final state in proton-proton collisions at $s\sqrt{= 13\text{ TeV}}$ .	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, et al.	JHEP 1910 (2019).
113.	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $s\sqrt{= 13\text{ TeV}}$ .	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, et al.	Eur.Phys.J. C79 (2019)
114.	Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $s\sqrt{NN}=\sqrt{= 5.44\text{ TeV}}$ .	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, et al.	Phys.Lett. B799 (2019).
115.	Charged-particle angular correlations in XeXe collisions at $s\sqrt{NN}=\sqrt{= 5.44\text{ TeV}}$ .	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, et al.	Phys.Rev. C100 (2019)
116.	Search for the doubly charmed baryon $\Xi^{++}cc$ .	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, An.A. Vorobyov, et al.	Sci.China Phys.Mech.Astron. 63
117.	Observation of New Resonances in the $\Lambda_0 b\pi+\pi^-$ System.	R. Aaij, ... G.D. Alkhazov, N.F.Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, An.A. Vorobyov, et al.	Phys.Rev.Lett. 123 (2019)
118.	Search for the lepton-flavour-violating decays	R. Aaij, ... G.D. Alkhazov, N.F.Bondar,	Phys.Rev.Lett. 123



	$B_0 \rightarrow \tau \pm \mu \bar{\tau}$ and $B_0 \rightarrow \tau \pm \mu \bar{\tau}$	A.A. Dzyuba, O.E. Maev, N.R. Sagidova, An.A. Vorobyov, et al.	
119.	Search for the lepton-flavour-violating decays $B_0 \rightarrow \tau \pm \mu \bar{\tau}$ and $B_0 \rightarrow \tau \pm \mu \bar{\tau}$ .	R. Aaij, ... G.D. Alkhazov, N.F. Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, An.A. Vorobyov, et al.	Phys.Rev.Lett. 123 (2019).
120	A search for $\Xi^{++} cc \rightarrow D + p K^- \pi^+$ decays.	R. Aaij, ... G.D. Alkhazov, N.F. Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, An.A. Vorobyov, et al.	JHEP 1910 (2019).
121.	Measurement of the CP-violating phase $\phi_s$ from $B_0 \rightarrow J/\psi \pi^+ \pi^-$ decays in 13 TeV pp collisions.	R. Aaij, ... G.D. Alkhazov, N.F. Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, An.A. Vorobyov, et al.	Phys.Lett. B797 (2019)
122	Measurements of CP asymmetries in charmless four-body $\Lambda_0 b$ and $\Xi_0 b$ decays	R. Aaij, ... G.D. Alkhazov, N.F. Bondar, A.A. Dzyuba, O.E. Maev, N.R. Sagidova, An.A. Vorobyov, et al.	Eur.Phys.J. C79 (2019).
123.	Light front Hamiltonian for boson form of QED (1+1) in Pauli–Villars regularization	... M. Yu. Malyshev ...,	.Int. J. Mod. Phys. A, Vol. 34, No. 21, 1950113 (2019).
124.	Effective Hamiltonian for QCD on the Light Front	... M. Yu. Malyshev ...,	Physics of Particles and Nuclei Letters, 2019, Vol. 16, No. 5, pp. 533–536.
125.	<u>Electroweak Z Boson Production with Associated Hadronic Jets Measured by the CMS Collaboration at <math>\sqrt{s} = 13</math> TeV</u>	V.A. Oreshkin	Physics of Particles and Nuclei Letters, 2019, Vol. 16, No. 5, pp. 463-468
126.	Dijets with Large Rapidity Separation at CMS	V.A. Murzin	Physics of Particles and Nuclei Letters, 2019, Vol. 16, No. 5, pp. 469-474
127..	Recent CMS and CMS-TOTEM results on diffraction	E.V. Kuznetsova	Proceedings of Science (PoS) October 2019, PoS DIS2019 v.352 (2019) 058, DOI: <a href="https://doi.org/10.22323/1.352.0058">https://doi.org/10.22323/1.352.0058</a>