

Список литературы лаборатории ЛФЭЧ за 1 квартал 2020 г.

№ п/п	Название публикации (статьи, монографии, пособия и т.д.)	Авторы	Где опубликовано (название журнала, сборника, издательства и т.д.)
1.	Performance of the reconstruction and identification of high-momentum muons 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>	JINST 15 (2020)
2.	Search for a heavy Higgs boson decaying to a pair of W bosons 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 2003 (2020)
3.	Measurement of the top quark pair production cross section in dilepton final states containing one τ lepton in pp 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 2002
4.	Observation of the $\Lambda 0 b \rightarrow J/\psi \Lambda \varphi$ decay 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>	Phys.Lett. B802.
5.	Search for top squark pair production in a final state with two tau leptons 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 2002.
6.	Bose-Einstein correlations of charged hadrons 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 2003.
7.	Search for supersymmetry with a compressed mass spectrum in events with a soft τ lepton, a highly energetic jet, and large missing transverse momentum 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>	Phys.Rev.Lett. 124.
8.	Evidence for WW production from double-parton interactions 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>	Eur.Phys.J. C80.
9.	Search for electroweak production of a vector-like T quark using fully hadronic final states.	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 2001.

10.	Observation of the $\Lambda_0 b \rightarrow J/\psi \Lambda \varphi$ decay 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>	Phys.Lett. B802.
11.	Search for top squark pair production in a final state with two tau leptons 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 2002.
12.	Bose-Einstein correlations of charged hadrons 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 2003.
13.	Search for supersymmetry with a compressed mass spectrum in events with a soft τ lepton, a highly energetic jet, and large missing transverse momentum 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>	Phys.Rev.Lett. 124.
14.	Running of the top quark mass from proton-proton collisions at 13TeV.	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. B803.
15.	Evidence for WW production from double-parton interactions 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>	Eur.Phys.J. C80.
16.	Measurement of the $t\bar{t}b\bar{b}$ production cross section in the all-jet final state in pp 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>	Phys.Lett. B803
17.	Search for electroweak production of a vector-like T quark using fully hadronic final states.	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 2001
18.	Searches for physics beyond the standard model with the MT^2 variable in hadronic final states with and without disappearing tracks 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>	Eur.Phys.J. C80.
19.	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons 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,	JHEP 2001.

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20.	Search for production of four top quarks in final states with same-sign or multiple leptons 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>	Eur.Phys.J. C80.
21.	Search for dark matter particles produced in association with a Higgs boson 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 2003.
21.	Search for direct pair production of supersymmetric partners to the τ lepton 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>	Eur.Phys.J. C80
22.	Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp 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>	Phys.Lett. B800.
23.	Combined search for supersymmetry with photons 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>	Phys.Lett. B801.
24.	Observation of nuclear modifications in W^\pm boson production in pPb collisions at 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>	Phys.Lett. B800.
25.	Multiparticle correlation studies in pPb collisions at 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>	Phys.Rev. C101.
26.	Extraction and validation of a new set of CMS PYTHIA8 tunes from underlying-event measurements.	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. C80.
27.	Measurement of electroweak production of a W boson 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. 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. C80.

Список литературы лаборатории ЛФЭЧ за 2 кв. 2020 г.

№ П/П	Название публикации (статьи, монографии, пособия и т.д.)	Авторы	Где опубликовано (название журнала, сборника, издательства и т.д.)
1.	Measurement of the muon flux from 400 GeV/c protons interacting in a thick molybdenum/tungsten target	SHiP Collaboration, C.Ahdida, ..., O.Fedin, G.Gavrilov, V.Kim, E.Kuznetsova, V. Maleev, ... et al.	Eur.Phys.J.C 80 (2020) 3, 284
2.	Search for supersymmetry in pp collisions at 13 TeV with 137 fb ⁻¹ in final states with a single lepton using the sum of masses of large-radius jets	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Rev.D 101 (2020) 5, 052010
3.	Strange hadron production in pp and pPb collisions at 5.02 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Rev.C 101 (2020) 6, 064906
4.	Constraints on the χ_{c1} versus χ_{c2} polarizations in proton-proton collisions at 8 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Rev.Lett. 124 (2020) 16, 162002
5.	Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Rev.Lett. 124 (2020) 13, 131802
6.	Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in pp collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Rev.Lett. 124 (2020) 20, 202001
7.	Search for Supersymmetry with a Compressed Mass	CMS Collaboration, A.M. Sirunyan, ... L.	Phys.Rev.Lett. 124 (2020) 4, 041803

	Spectrum in Events with a Soft τ Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV	Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	
8.	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at 2.76 and 5.02 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Eur.Phys.J.C 80 (2020) 6, 534
9.	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Eur.Phys.J.C 80 (2020) 5, 370
10.	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at 13 TeV and constraints on anomalous quartic couplings	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 06 (2020) 076
11.	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 05 (2020) 052
12.	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 06 (2020) 146
13.	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 05 (2020) 032

14.	Determination of the strong coupling constant $\alpha_s(m_Z)$ from measurements of inclusive W^\pm and Z boson production cross sections in proton-proton collisions at 7 and 8 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 06 (2020) 018
15.	A search for the standard model Higgs boson decaying to charm quarks	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 03 (2020) 131
16.	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 03 (2020) 103
17.	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 05 (2020) 033
18.	Measurement of properties of $B_s^0 \rightarrow \mu^+\mu^-$ decays and search for $B^0 \rightarrow \mu^+\mu^-$ with the CMS experiment	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 04 (2020) 188
19.	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	JHEP 04 (2020) 171
20.	Search for disappearing tracks in proton-proton collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Lett.B 806 (2020) 135502

21.	A measurement of the Higgs boson mass in the diphoton decay channel	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Lett.B 805 (2020) 135425
22.	Study of excited Λ_b^0 states decaying to $\Lambda_b^0\pi^+\pi^-$ in proton-proton collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Lett.B 803 (2020) 135345
23.	Search for dijet resonances using events with three jets in proton-proton collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Lett.B 805 (2020) 135448
24.	Study of J/ψ meson production inside jets in pp collisions at 8 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Lett.B 804 (2020) 135409
25.	Running of the top quark mass from proton-proton collisions at 13TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Lett.B 803 (2020) 135263
26.	Measurement of the $t\bar{t}b\bar{b}$ production cross section in the all-jet final state in pp collisions at 13 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Lett.B 803 (2020) 135285
27.	Production of Λ_c^+ baryons in proton-proton and lead-lead collisions at 5.02 TeV	CMS Collaboration, A.M. Sirunyan, ... L. Chtchipounov, V. Golovtcov, Yu. Ivanov, V. Kim, E. Kuznetsova, P. Levchenko, V. Murzin, V. Oreshkin, I. Smirnov, D. Sosnov, V. Sulimov, L. Uvarov, A. Vorobyev, ... et al.	Phys.Lett.B 803 (2020) 135328

Список литературы лаборатории ЛФЭЧ за 3 кв. 2020 г.

№ п/п	Название публикации (статьи, монографии, пособия и т.д.)	Авторы	Где опубликовано (название журнала, сборника, издательства и т.д.)
1	Search for supersymmetry in proton-proton collisions at 13 TeV in events with high-momentum Z bosons and missing transverse momentum	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	JHEP 09 (2020), 149
2	Search for resonant pair production of Higgs bosons in the bbZZ channel in proton-proton collisions at 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	Phys.Rev.D 102 (2020) 3, 032003
3	Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ final state in proton-proton collisions at 13 TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	JHEP 08 (2020), 139
4	Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at 8 TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	JHEP 08 (2020) 08, 051
5	Measurements of production cross sections of WZ and same-sign WW 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, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	Phys.Lett.B 809 (2020), 135710
6	Measurement of CKM matrix elements in single top quark $t\bar{t}$ -channel production in proton-proton collisions at 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al..	Phys.Lett.B 808 (2020), 135609

7	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al..	JINST 15 (2020) 06, P06005.
8	Search for disappearing tracks in proton-proton collisions at 13 TeV.	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al..	Phys.Lett.B 806 (2020), 135502.
9	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 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 07 (2020), 115.
10.	The production of isolated photons in PbPb and pp collisions at 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 07 (2020), 116
11.	Measurement of the cross section for $t\bar{t}$ production with additional jets and b jets 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, et al..	JHEP 07 (2020), 125
12.	Study of central exclusive $\pi^+ \pi^-$ production in proton-proton collisions at 5.02 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, et al..	Eur.Phys.J.C 80 (2020) 8, 718
13	Pileup mitigation at CMS in 13 TeV data	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	JINST 15 (2020) 09, P09018

14	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at 13 TeV and constraints on anomalous quartic couplings	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	JHEP 06 (2020), 076
15	Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\mu^+\mu^-$ in proton-proton collisions at 13 TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	Phys.Lett.B 808 (2020), 135578
16	A measurement of the Higgs boson mass in the diphoton decay channel	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	Phys.Lett.B 805 (2020), 135425
17	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at 13 TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	Eur.Phys.J.C 80 (2020) 8, 752
18	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at 13 TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	JHEP 07 (2020), 126
19	Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at 13 TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	Phys.Rev.D 102 (2020) 3, 032007
20	Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	JINST 15 (2020) 06, P06009

21	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at 13 TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	JHEP 06 (2020), 146
22	Studies of charm quark diffusion inside jets using PbPb and pp collisions at 5.02 TeV	S. Chatrchyan,... A.A. Vorobyov, V.L. Golovtsov, V.T. Kim, P.M. Levtchenko, E. V. Kuznetsova, V.A.Mursin, V.A. Oreshkin, I.B. Smirnov, D. E. Sosnov, V.V. Sulimov, L.N. Uvarov, S.A. Vavilov, An.A. Vorobyov, et al.	Phys.Rev.Lett. 125 (2020) 10, 102001

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№ п/п	Название публикации (статьи, монографии, пособия и т.д.)	Авторы	Где опубликовано (название журнала, сборника, издательства и т.д.)
1	W+W– boson pair production 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.D 102 (2020) 9, 092001
2	Measurement of $B_c(2S)^+$ and $B^*c(2S)^+$ cross section ratios 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.D 102 (2020) 9, 092007
3	Asymmetric skyrmion-antiskyrmion production in ultrathin ferromagnetic films	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. B 102, (2020) 17, 174409
4.	Search for decays of the 125 GeV Higgs boson into a Z boson and a ρ or φ meson	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 11 (2020) 039.
5.	Investigation into the event-activity dependence of $\Upsilon(nS)$ relative production in proton-proton collisions at 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>	JHEP 11 (2020) 001
5.	Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton 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 15 (2020) 10, P10002

6.	Estimate of the location of the neutron drip line for calcium isotopes from an exact Hamiltonian with continuum pair correlations.	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. C 102, 064301.
7.	Observation of the Production of Three Massive Gauge Bosons 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. 125 (2020) 15, 151802
8.	Evidence for Top Quark Production in Nucleus-Nucleus Collisions	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. 125 (2020) 22, 222001
9.	Performance of the CMS Level-1 trigger 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>	JINST 15 (2020) 10, P10017
10.	Search for a light charged Higgs boson in the $H^\pm \rightarrow cs$ channel 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.D 102 (2020) 7, 072001
11.	Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ final state 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 08 (2020) 139
12.	Observation of the $B_0 \rightarrow X(3872)\phi$ decay.	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. 125 (2020) 15, 152001

13.	Measurements of production cross sections of WZ and same-sign WW 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, <i>et al.</i>	Phys.Lett.B 809 (2020) 135710
14.	Measurement of CKM matrix elements in single top quark $t\bar{t}$ -channel production 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.Lett.B 808 (2020) 13560
15.	Identification of heavy, energetic, hadronically decaying particles using machine-learning 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>	JINST 15 (2020) 06, P06005
16.	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution	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> 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>	Comput.Softw.Big Sci. 4 (2020) 1, 10