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Суммарный ПРНД (за 2017-2018 гг.) = 514.49

Статьи:

1. CMS HCAL Collaboration (S. Chatrchyan et al.). Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics // JINST 12 (2017) no.12, P12034 (356 авторов). **ПРНД = $1,258 \cdot 30 \cdot 0,04 = 1,51$**
2. CMS HCAL Collaboration (S. Chatrchyan et al.). Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam // JINST 13 (2018) no.01, P01002 (356 авторов). **ПРНД = $1,258 \cdot 30 \cdot 0,04 = 1,51$**
3. Yu. Musienko. New empirical expression for APD gain vs voltage dependence // JINST 12 (2017) no.07, C07033. **ПРНД = $1,258 \cdot 30 = 37,74$**
4. Yu. Musienko, A. Heering, R. Ruchti, M. Wayne, Yu. Andreev, A. Karneyeu, V. Postoev. Radiation damage in silicon photomultipliers exposed to neutron radiation. // JINST 12 (2017) no.07, C07030. **ПРНД = $1,258 \cdot 30 \cdot 0,2 = 7,55$**
5. M. Mazzillo, D. Mello, P. Barbarino, M. Romeo, Yu. Musienko, A. Sciuto, S. Libertino, S. Lombardo and G. Fallica. Electro-Optical Characterization of SiPMs with Green Bandpass Dichroic Filters. // IEEE Sensors Journal, v.17, no.13, July 1, 2017. **ПРНД = $2,617 \cdot 30 \cdot 0,2 = 15,70$**
6. M. Mazzillo, D. Mello, P. Barbarino, M. Romeo, Yu. Musienko, A. Sciuto, S. Libertino, S. Lombardo and G. Fallica. Noise Reduction in Silicon Photomultipliers for Use in Functional Near-Infrared Spectroscopy. // IEEE TRANSACTIONS ON RADIATION AND PLASMA MEDICAL SCIENCES, VOL. 1, NO. 3, MAY 2017. **ПРНД = $8 \cdot 0,2 = 1,6$**
7. Yu. Musienko, A. Heering, R. Ruchti, M. Wayne, Yu. Andreev, A. Karneyeu, V. Postoev. Radiation damage of prototype SiPMs for the CMS HCAL Barrel phase I upgrade, Nucl. Instrum. Methods Phys. Res. A, 912 (2018), p. 359, **ПРНД = $1,336 \cdot 30 \cdot 0,2 = 8,02$**
8. CMS HCAL Collaboration (S. Chatrchyan (Yerevan Phys. Inst.) et al.). Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam, Sep 25, 2017. 17 pp., Published in JINST 13 (2018) no.01, P01002 (356 авторов). **ПРНД = $1,22 \cdot 30 \cdot 0,04 = 1,46$**
9. A. Heering, Yu. Musienko, J. Gonzales, A. Karneyeu, M. Wayne, R. Ruchti, M. Moll, Low temperature characteristics of SiPMs after very high neutron irradiation, 2018., Published in Nucl. Instrum. Meth. (2018), DOI: 10.1016/j.nima.2018.09.111, **ПРНД = $1,336 \cdot 30 \cdot 0,2 = 8,02$**
10. CMS HCAL Collaboration (B.. Bilki (Iowa U.) et al.). Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics, 2017. 18 pp., Published in JINST 12 (2017) no.12, P12034 (356 авторов). **ПРНД = $1,22 \cdot 30 \cdot 0,04 = 1,46$**

Препринты:

1. E. Garutti, Yu. Musienko, Radiation damage of SiPMs (review), arXiv:1809.06361v2, . **ПРНД = $3/2 = 1,5$**

Доклады на конференциях и труды конференций:

1. M. Mazzillo, D. Mello, P. Barbarino, M. Romeo, Yu. Musienko, A. Sciuto, S. Libertino, S. Lombardo and G. Fallica (poster). Silicon Photomultipliers with Embedded Optical Filters for Wearable Healthcare Applications, IEEE Sensors 2017 Conference, October 30 – November 1, 2017, Glasgow, Scotland, UK. <http://ieee-sensors2017.org>, **PPHД = $10 \cdot 0.2 = 2$**
2. Proceedings of IEEE Sensors 2017, M. Mazzillo, D. Mello, P. Barbarino, M. Romeo, Yu. Musienko, A. Sciuto, S. Libertino, S. Lombardo and G. Fallic, Silicon Photomultipliers with Embedded Optical Filters for Wearable Healthcare Applications. <http://ieeexplore.ieee.org.ezproxy.cern.ch/document/8234373/> , **PPHД = $8 \cdot 0.2 = 1.6$**
3. Yu.Musienko. Advances in Solid State Photon Detectors (invited talk). INSTR17 International Conference, Novosibirsk, Russia, from 27 February to 3 March, 2017. <http://instr17.inp.nsk.su/> , **PPHД = 25**
4. Yu. Musienko, Y. Andreev, A. Heering, A. Karneyeu, V. Postoev, R. Ruchti, M. Wayne. Radiation damage in silicon photomultipliers exposed to neutron radiation (poster). INSTR17 International Conference, Novosibirsk, Russia, from 27 February to 3 March, 2017. <http://instr17.inp.nsk.su/> , **PPHД = $10 \cdot 0.2 = 2$**
5. Yu. Musienko. New empirical expression for APD gain versus voltage dependence (poster). INSTR17 International Conference, Novosibirsk, Russia, from 27 February to 3 March, 2017. <http://instr17.inp.nsk.su/> , **PPHД = 10**
6. A. Heering, Yu. Musienko, R. Ruchti and M. Wayne. Ultra High Density SiPM for radiation environment (talk). CPAD Instrumentation Frontier Meeting 2016 : NEW TECHNOLOGIES FOR DISCOVERY II, California Institute of Technology, USA, 8-10 October, 2016, <https://indico.hep.anl.gov/indico/conferenceDisplay.py?confId=1017>, **PPHД = $15/4 = 3.75$**
7. Yu. Musienko, Y. Andreev, A. Heering, A. Karneyeu, V. Postoev, R. Ruchti, M. Wayne. Study and Modelling of Irradiated Solid-State Photomultipliers (SSPMs) (poster). NDIP17 International Conference, Tours, France, 3-7 July, 2017. <http://ndip.in2p3.fr/tours17/> , **PPHД = $10 \cdot 0.2 = 2$**
8. Yu. Musienko, Y. Andreev, A. Heering, A. Karneyeu, V. Postoev, R. Ruchti, M. Wayne. Radiation Damage of Prototype SiPMs for the CMS HCAL Barrel Phase I (poster). NDIP17 International Conference, Tours, France, 3-7 July, 2017. <http://ndip.in2p3.fr/tours17/> , **PPHД = $10 \cdot 0.2 = 2$**
9. Yu. Musienko, Y. Andreev, A. Heering, A. Karneyeu, V. Postoev, R. Ruchti, M. Wayne. Radiation damage study of SiPMs for the CMS HCAL/HGC Upgrade (talk). 2nd CMS Workshop "Perspectives on Physics and on CMS at HL-LHC", Varna, Bulgaria, 28 August – 1 September 2017. <http://cms-varna2017.jinr.ru> , **PPHД = 12.14**
10. F. Acerbi, A. Gola, G. Paternoster, Yu. Musienko, A. Heering, N. Zorzi, C. Piemonte. New Results on Ultra-High Cell-Density Silicon Photomultipliers with Improved Effective-Fill-Factor (poster). NDIP17 International Conference, Tours, France, 3-7 July, 2017. <http://ndip.in2p3.fr/tours17/> , **PPHД = $10 \cdot 0.2 = 2$**
11. Yu.Musienko "SiPM applications in High-Energy and Neutrino Physics (invited review talk)", SENSE TechForum, Geneva, June 21-22, 2018, <https://www.sense-pro.org/news/latest-news/61-sense-techforum>, **PPHД = 25**
12. A. Heering, Yu. Musienko, J. Gonzales, A. Karneyeu, M. Wayne, R. Ruchti, M. Moll, "Low temperature characteristics of SiPMs after very high neutron irradiation", 14th Pisa Meeting on

Advanced Detectors, La Biodola, Isola d'Elba (Italy), 27 May 2018 - 02 June 2018, <https://agenda.infn.it/conferenceDisplay.py?confId=13450>, ПРHD = $10 \cdot 0.2 = 2$

13. E. Garutti, Yu. Musienko, T. Tsang "Radiation hardness (introduction)", International Conference on the Advancement of Silicon Photomultipliers (ICASiPM-2018), 11-15 June 2018, Palais Hirsch, Schwetzingen, Germany, <http://www.icasipm.physics.gatech.edu/>, ПРHD = $15/3 = 5$

14. Yu. Musienko, A. Heering, Yu. Andreev, A. Karneyeu, M. Wayne, "Radiation damage study of SiPMs for the CMS BH HGAL", 20th Annual RDMS CMS Collaboration Conference, Tashkent-Samarkand, Uzbekistan, 12-15 September, 2018, <http://rdms2018.jinr.ru/>, ПРHD = 13

15. Yu. Musienko, A. Heering, A. Karneyeu, M. Wayne, "Radiation hardness of SiPMs (invited review talk)", 5th International Workshop on New Photon-Detectors, Nov. 27-29, 2018, The University of Tokyo, Tokyo, Japan, <https://www-conf.kek.jp/PD18/PD18conf/Overview.html>, ПРHD = 13.75

16. Yu. Musienko, A. Heering, A. Karneyeu, M. Wayne, "Studies of radiation damage to SiPMs at low temperatures", 5th International Workshop on New Photon-Detectors, Nov. 27-29, 2018, The University of Tokyo, Tokyo, Japan, <https://wwwconf.kek.jp/PD18/PD18conf/Overview.html>, ПРHD = 13.75

Статьи CMS:

1. Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Nov 1, 2018. 41 pp., Published in JHEP 1812 (2018) 117, ПРHD = 1.164

2. Search for leptoquarks coupled to third-generation quarks in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Sep 14, 2018. 19 pp., Published in Phys.Rev.Lett. 121 (2018) no.24, 241802, ПРHD = 1.856

3. 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 $\sqrt{s}=8$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Sep 10, 2018. 37 pp., Published in Eur.Phys.J. C78 (2018) no.11, 939, ПРHD = 1.086

4. Performance of reconstruction and identification of τ leptons decaying to hadrons and $\nu\tau$ in pp collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (A.M. Sirunyan et al.). Sep 8, 2018. 71 pp., Published in JINST 13 (2018) no.10, P10005, ПРHD = 0.264

5. Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (A. M. Sirunyan et al.). Sep 2, 2018. 26 pp., Published in Phys.Rev. D98 (2018) no.9, 092001, ПРHD = 0.923

6. Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{NN}}=5.44$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Sep 1, 2018. 41 pp., Published in JHEP 1810 (2018) 138, ПРHD = 1.164

7. Observation of Higgs boson decay to bottom quarks, CMS Collaboration (A. M. Sirunyan et al.). Aug 24, 2018. 20 pp., Published in Phys.Rev.Lett. 121 (2018) no.12, 121801, ПРHD = 1.856

8. Measurement of jet substructure observables in $t\bar{t}$ events from proton-proton collisions at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (A. M. Sirunyan et al.). Aug 22, 2018. 36 pp., Published in Phys.Rev. D98 (2018) no.9, 092014, **ПРД = 0.923**
9. Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8\text{TeV}$, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Aug 20, 2018. 36 pp., Published in JHEP 1811 (2018) 115, **ПРД = 1.164**
10. Evidence for the associated production of a single top quark and a photon in proton-proton collisions at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Aug 8, 2018. 18 pp., Published in Phys.Rev.Lett. 121 (2018) no.22, 221802, **ПРД = 1.856**
11. Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Aug 9, 2018. 25 pp., Published in Phys.Rev. D98 (2018) no.9, 092011, **ПРД = 0.923**
12. Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Aug 9, 2018. 25 pp., Published in Phys.Rev. D98 (2018) no.11, 112014, **ПРД = 0.923**
13. Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s}=8$ and 13TeV , CMS Collaboration (A.M. Sirunyan et al.). Aug 6, 2018. 35 pp., Published in JHEP 1811 (2018) 161, **ПРД = 1.164**
14. Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (Albert M. Sirunyan (Yerevan Phys. Inst.) et al.). Jul 20, 2018. 49 pp., Published in JHEP 1811 (2018) 079, **ПРД = 1.164**
15. Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (Albert M. Sirunyan (Yerevan Phys. Inst.) et al.). Jul 16, 2018. 41 pp., Published in JHEP 1811 (2018) 113, **ПРД = 1.164**
16. Precision measurement of the structure of the CMS inner tracking system using nuclear interactions, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Jul 9, 2018. 41 pp., Published in JINST 13 (2018) no.10, P10034, **ПРД = 0.264**
17. Search for supersymmetry in events with a τ lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (Albert M. Sirunyan (Yerevan Phys. Inst.) et al.). Jul 5, 2018. 62 pp., Published in JHEP 1811 (2018) 151, **ПРД = 1.164**
18. Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (Albert M. Sirunyan (Yerevan Phys. Inst.) et al.). Jun 29, 2018. 39 pp., Published in Eur.Phys.J. C78 (2018) no.9, 697, **ПРД = 1.086**
19. Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s}=8$ and 13TeV , CMS Collaboration (Albert M. Sirunyan (Yerevan Phys. Inst.) et al.). Jun 28, 2018. 26 pp., Published in Phys.Lett. B789 (2019) 19-44, **ПРД = 0.893**
20. Search for the decay of a Higgs boson in the $\ell\ell\gamma$ channel in proton-proton collisions at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (A.M. Sirunyan et al.). Jun 15, 2018. 40 pp., Published in JHEP 1811 (2018) 152, **ПРД = 1.164**
21. Search for dark matter produced in association with a Higgs boson decaying to $\gamma\gamma$ or $\tau^+\tau^-$ at $\sqrt{s}=13\text{TeV}$, CMS Collaboration (Albert M. Sirunyan et al.). Jun 12, 2018. 47 pp., Published in JHEP 1809 (2018) 046, **ПРД = 1.164**

22. Observation of the $Z \rightarrow \psi \ell + \ell^-$ decay in pp collisions at $\sqrt{s} = 13$ TeV, CMS Collaboration (Albert M. Sirunyan (Yerevan Phys. Inst.) et al.). Jun 11, 2018. 17 pp. Published in Phys.Rev.Lett. 121 (2018) no.14, 141801 , **ПРД = 1.856**
23. Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV, CMS Collaboration (Albert M. Sirunyan (Yerevan Phys. Inst.) et al.). Jun 9, 2018. 34 pp., Published in JHEP 1808 (2018) 152, **ПРД = 1.164**
24. Search for a singly produced third-generation scalar leptoquark decaying to a τ lepton and a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV, CMS Collaboration (A.M. Sirunyan et al.). Jun 9, 2018. 39 pp., Published in JHEP 1807 (2018) 115, **ПРД = 1.164**
25. Search for pair-produced resonances each decaying into at least four quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV, CMS Collaboration (Albert M. Sirunyan (Yerevan Phys. Inst.) et al.). Jun 4, 2018. 18 pp., Published in Phys.Rev.Lett. 121 (2018) no.14, 141802 , **ПРД = 1.856**
26. Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV, CMS Collaboration (A.M. Sirunyan et al.). Jun 3, 2018. 41 pp., Published in Eur.Phys.J. C78 (2018) no.9, 701 , **ПРД = 1.086**
27. Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles, CMS Collaboration (Albert M. Sirunyan (Yerevan Phys. Inst.) et al.). Jun 3, 2018. 54 pp., Published in JHEP 1808 (2018) 130, **ПРД = 1.164**
28. Angular analysis of the decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Jun 2, 2018. 20 pp., Published in Phys.Rev. D98 (2018) no.11, 112011, **ПРД = 0.923**
29. Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state in pp collisions at $\sqrt{s} = 13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Jun 1, 2018. 30 pp., Published in Phys.Lett. B788 (2019) 7-36, **ПРД = 0.893**
30. Search for beyond the standard model Higgs bosons decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s} = 13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 30, 2018. 43 pp., Published in JHEP 1808 (2018) 113, **ПРД = 1.164**
31. Observation of the χ_{b1} (3P) and χ_{b2} (3P) and measurement of their masses, CMS Collaboration (A. M. Sirunyan et al.). May 28, 2018. 29 pp., Published in Phys.Rev.Lett. 121 (2018) 092002 , **ПРД = 1.856**
32. Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s} = 13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 25, 2018. 20 pp., Published in Phys.Rev. D98 (2018) no.3, 032005, **ПРД = 0.923**
33. 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 $\sqrt{s} = 13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 25, 2018. 42 pp., Published in Phys.Lett. B785 (2018) 462, **ПРД = 0.893**
34. Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 18, 2018. 37 pp., Published in JHEP 1810 (2018) 117, **ПРД = 1.164**
35. Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 15, 2018. 47 pp., Published in JHEP 1811 (2018) 042, **ПРД = 1.164**

36. Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (A.M. Sirunyan et al.). May 15, 2018. 44 pp., Published in JHEP 1809 (2018) 065, **ПРД = 1.164**
37. 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 $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 13, 2018. 35 pp., Published in JHEP 1811 (2018) 018, **ПРД = 1.164**
38. Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 12, 2018. 48 pp., Published in JHEP 1808 (2018) 177, **ПРД = 1.164**
39. Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s_{NN}}=5.02$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 14, 2018. 35 pp., Published in JHEP 1810 (2018) 161, **ПРД = 1.164**
40. Constraining gluon distributions in nuclei using dijets in proton-proton and proton-lead collisions at $\sqrt{s_{NN}}=5.02$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 12, 2018. 18 pp., Published in Phys.Rev.Lett. 121 (2018) no.6, 062002, **ПРД = 1.856**
41. Measurement of the top quark mass with lepton+jets final states using pp collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). May 3, 2018. 27 pp., Published in Eur.Phys.J. C78 (2018) no.11, 891, **ПРД = 1.086**
42. Elliptic flow of charm and strange hadrons in high-multiplicity pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV, CMS Collaboration (A. M. Sirunyan et al.). Apr 25, 2018. 18 pp., Published in Phys.Rev.Lett. 121 (2018) no.8, 082301, **ПРД = 1.856**
43. Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Apr 19, 2018. 37 pp., Published in JHEP 1808 (2018) 016, **ПРД = 1.164**
44. Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Apr 14, 2018. 51 pp., Published in Eur.Phys.J. C78 (2018) no.11, 965, **ПРД = 1.086**
45. Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (A.M. Sirunyan et al.). Apr 12, 2018. 53 pp., Published in JINST 13 (2018) no.06, P06015, **ПРД = 0.264**
46. Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (A.M. Sirunyan et al.). Apr 8, 2018. 56 pp., Published in JHEP 1811 (2018) 185, **ПРД = 1.164**
47. Observation of $t\bar{t}H$ production, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Apr 7, 2018. 17 pp., Published in Phys.Rev.Lett. 120 (2018) no.23, 231801, **ПРД = 1.856**
48. Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Apr 5, 2018. 50 pp., Published in JHEP 1806 (2018) 127, **ПРД = 1.164**
49. Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 29, 2018. 41 pp., Published in JHEP 1806 (2018) 128, **ПРД = 1.164**

50. Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 29, 2018. 36 pp., Published in JHEP 1805 (2018) no.05, 148, **ПРHD = 1.1641**
51. Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\ell 2q$ final states at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 27, 2018. 41 pp., Published in JHEP 1809 (2018) 101, **ПРHD = 1.164**
52. Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 23, 2018. 91 pp., Published in Phys.Rev. D97 (2018) no.11, 112003, **ПРHD = 0.923**
53. Search for new physics in dijet angular distributions using proton–proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 21, 2018. 38 pp., Published in Eur.Phys.J. C78 (2018) no.9, 789, **ПРHD = 1.086**
54. Search for $t\bar{t}H$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 19, 2018. 46 pp., Published in JHEP 1806 (2018) 101, **ПРHD = 1.164**
55. Search for additional neutral MSSM Higgs bosons in the τ final state in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 17, 2018. 56 pp., Published in JHEP 1809 (2018) 007, **ПРHD = 1.164**
56. Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 16, 2018. 44 pp., Published in JHEP 1806 (2018) 120, **ПРHD = 1.164**
57. Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying τ leptons at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 14, 2018. 50 pp., Published in JHEP 1808 (2018) 066, **ПРHD = 1.164**
58. 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, CMS and TOTEM Collaborations (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 12, 2018. 41 pp., Published in JHEP 1807 (2018) 153, **ПРHD = 1.164**
59. Search for a heavy resonance decaying into a Z boson and a vector boson in the $vv\ell\ell qq$ final state, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 10, 2018. 34 pp., Published in JHEP 1807 (2018) 075, **ПРHD = 1.164**
60. Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV, CMS Collaboration (A.M. Sirunyan et al.). Mar 11, 2018. 56 pp., Published in JHEP 1806 (2018) 002, **ПРHD = 1.164**
61. Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s}=13$ TeV, CMS Collaboration (Albert M Sirunyan (Yerevan Phys. Inst.) et al.). Mar 7, 2018. 38 pp., Published in Eur.Phys.J. C78 (2018) 707, **ПРHD = 1.086**
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