

Директору ОИЯИ

академику РАН Г.В.Трубникову

от Каменева Алексея Юрьевича с.н.с
(ФИО, должность, сектор, отдел,


Сектор 2, НЭОФ SMS, ЛФВЭ
отделение, лаборатория)

ЗАЯВЛЕНИЕ

Прошу Вас допустить меня к участию в выборах на замещение вакантной должности

старшего научного сотрудника, Сектор №2, НЭОФ SMS, ЛФВЭ

(название должности, сектора, отдела, отделения, лаборатории)

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Личная подпись, дата

Научная биография (Curriculum Vitae)

Старшего научного сотрудника сектора №2 НЭОФ CMS ЛФВЭ

(название занимаемой должности, отдела, сектора, отделения, лаборатории)

Каменева Алексея Юрьевича

(Ф.И.О.)

ФИО: Каменев Алексей Юрьевич

Дата и место рождения: 9 марта 1979 года, город Пермь

Образование, научные степени, звание: высшее образование, окончил факультет Общей и Прикладной Физики Московского Физико-Технического Института в 2002 году с дипломом магистра прикладных физики и математики.

Профессиональная научная деятельность: В августе 2002 г. начал работать в НЭОД ЛФЧ ОИЯИ в эксперименте CMS. Участвовал в производстве и контроле качества катодно-стриповых камер мюонной станции ME1/1 установки CMS. В октябре 2002 года поступил в аспирантуру УНЦ ОИЯИ. Начал заниматься вопросом восстановления параметров локальных систем координат камер станции ME1/1 в общей системе координат установки CMS. В 2005 году подключился к работам по калибровке торцевой части адронного калориметра CMS. В 2006 участвовал в наборе данных, быстром мониторинге и анализе данных магнитного теста установки CMS на космических лучах. В 2008 и 2009 годах участвовал в сеансах набора данных CRAFT, принял активное участие в обработке этих данных. В 2010-2011 году занимался изучением взаимного расположения слоёв торцевых мюонных камер с помощью информации от треков. Участвовал в тестировании готовности GRID инфраструктуры к массовой обработке данных. В 2012 году работал над исследованием качества реконструкции координат треков из исходных данных. Активно участвовал в наборе данных как из ЦЕРН, так и из удалённого центра в Дубне. В 2013 и 2014 году участвовал в переоснащении торцевых мюонных камер станции ME1/1 CMS новой электроникой и в подготовке этих камер к новому сеансу набора данных на БАК. С 2015 года участвовал в наборе данных установки CMS и в контроле качества этих данных. Регулярно был дежурным по безопасности на установке CMS. С 2015 года участвую в испытаниях радиационной стойкости и загрузочной способности торцевых камер CMS на выведенных пучках SPS при облучении от гамма-источника на установке GIF++.

Во время второго набора данных (RUN2, 2016–2018) участвовал в дежурствах на установке CMS. На основании данных от столкновений была откалибрована высоковольтная система торцевых катодно-стриповых камер. Продолжил участие в работах на установке GIF++.

В 2018–2022, во время остановки ускорителя LHC участвовал в переоснащении торцевых мюонных камер станции ME1/1 CMS новой электроникой и новой системой охлаждения. Подготовлено ПО для калибровки новой высоковольтной системы камер ME1/1 на данных RUN3 CMS. По результатам анализа данных с камер, облучаемых на установке GIF++, не выявлено ухудшение их работы.

Научные интересы: контроль качества данных физических экспериментов, первичная обработка данных, калибровка детекторов.

Научные труды: Публикаций в реферируемых журналах за последние 5 лет 438, другие публикации 3 (из pin.jinr.ru).

Каменев Алексей Юрьевич,

(Отделение №4 Физики на встречных пучках - Научно-экспериментальный отдел физики на CMS - Сектор №2 торцевых детекторов на CMS, старший научный сотрудник)

Список научных работ

за период с 2017 по 2022гг. (данные на 08.07.2022)

Публикации в рецензируемых журналах (зарубежные):

1. Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections
CMS Collaboration (V. Khachatryan et al.), The European Physical Journal C - Particles and Fields, ISSN:1434-6044, eISSN:1434-6052, Изд:Springer Berlin Heidelberg, 77, 15, 2017
2. Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
CMS Collaboration (V. Khachatryan et al.), Physical Review C, Nuclear Physics, ISSN:0556-2813, eISSN:1089-490X, Изд:The American Physical Society, 96, 1, 014915, 2017
3. Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC
CMS Collaboration (V. Khachatryan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 768, 103-129, 2017
4. Coherent J/psi photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the CMS experiment
CMS Collaboration (V. Khachatryan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 772, 489-511, 2017
5. Search for dark matter and supersymmetry with a compressed mass spectrum in the vector boson fusion topology in proton-proton collisions at $\sqrt{s} = 8$ TeV
CMS Collaboration (V. Khachatryan et al.), Physical Review Letters, ISSN:0031-9007, eISSN:1079-7114, Изд:The American Physical Society, 118, 2, 021802, 2017
6. Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s} = 8$ TeV using $H \rightarrow WW$ decays
CMS Collaboration (V. Khachatryan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 1703, 032, 2017
7. Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV
CMS Collaboration (V. Khachatryan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 02, 096, 2017
8. Evidence for collectivity in pp collisions at the LHC
CMS Collaboration (V. Khachatryan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 765, 193-220, 2017
9. Observation of the decay $B^+ \rightarrow \psi(2S)\phi(1020)K^+$ in pp collisions at $\sqrt{s} = 8$ TeV
CMS Collaboration (V. Khachatryan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 764, 66-86, 2017
10. Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV

collisions at $\sqrt{s_{NN}} = 2.76$ TeV

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22. Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV

CMS Collaboration (V. Khachatryan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 02, 028, 2017

23. Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at 13 TeV

CMS Collaboration (V. Khachatryan et al.), Physical Review D, particles, fields, gravitation, and cosmology, ISSN:1550-7998, eISSN:1550-2368, Изд:The American Physical Society, 95, 9, 092001, 2017

24. Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s} = 8$ TeV

CMS Collaboration (V. Khachatryan et al.), Physical Review D, particles, fields, gravitation, and cosmology, ISSN:1550-7998, eISSN:1550-2368, Изд:The American Physical Society, 95, 012009, 2017

25. Observation of Upsilon(1S) pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV

CMS Collaboration (V. Khachatryan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 05, 013, 2017

26. Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks

CMS Collaboration (V. Khachatryan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 768, 137-162, 2017

27. Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8,$ and 13 TeV

CMS Collaboration (V. Khachatryan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 02, 135, 2017

28. A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable

CMS Collaboration (V. Khachatryan et al.), The European Physical Journal C - Particles and Fields, ISSN:1434-6044, eISSN:1434-6052, Изд:Springer Berlin Heidelberg, 77, 05, 294, 2017

29. Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV

CMS Collaboration (V. Khachatryan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 04, 039, 2017

30. Relative modification of prompt $\psi(2S)$ and J/ψ yields from pp to PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV

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31. Suppression of Upsilon(1S), Upsilon(2S) and Upsilon(3S) production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV

CMS Collaboration (V. Khachatryan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 770, 357-379, 2017

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43. Search for high-mass Z gamma resonances in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV using jet substructure techniques

CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 772, 363-387, 2017

44. Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (V. Khachatryan et al.), Physical Review D, particles, fields, gravitation, and cosmology, ISSN:1550-7998, eISSN:1550-2368, Изд:The American Physical Society, 96, 1, 012004, 2017

45. Mechanical stability of the CMS strip tracker measured with a laser alignment system

CMS Collaboration (A. Sirunyan et al.), Journal of Instrumentation, ISSN:1748-0221, Изд:IOP Publishing Limited, 12, P04023, 2017

46. Measurement of the $t\bar{t}$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 09, 051, 2017

47. Search for supersymmetry with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (V. Khachatryan et al.), The European Physical Journal C - Particles and Fields, ISSN:1434-6044, eISSN:1434-6052, Изд:Springer Berlin Heidelberg, 77, 09, 635, 2017

48. Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 05, 029, 2017

49. Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 772, 634-656, 2017

50. Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 08, 046, 2017

51. Study of jet quenching with Z +jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV

CMS Collaboration (A. Sirunyan et al.), Physical Review Letters, ISSN:0031-9007, eISSN:1079-7114, Изд:The American Physical Society, 119, 8, 082301, 2017

52. Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $\sqrt{s} = 8$ TeV

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64. Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 07, 013, 2017

65. Measurements of the $pp \rightarrow W \gamma \gamma$ and $pp \rightarrow Z \gamma \gamma$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s} = 8$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 10, 072, 2017

66. Search for $t\bar{t}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 07, 001-047, 2017

67. Measurement of the top quark mass in the dileptonic $t\bar{t}$ decay channel using the mass observables M_{bl} , M_{T2} , and M_{blnu} in pp collisions at $\sqrt{s} = 8$ TeV

CMS Collaboration (A. Sirunyan et al.), Physical Review D, covering particles, fields, gravitation, and cosmology, ISSN:2470-0010, eISSN:2470-0029, Изд:The American Physical Society, 96, 3, 032002, 2017

68. Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), The European Physical Journal C - Particles and Fields, ISSN:1434-6044, eISSN:1434-6052, Изд:Springer Berlin Heidelberg, 77, 09, 578, 2017

69. Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV

CMS Collaboration (A. Sirunyan et al.), Physical Review D, covering particles, fields, gravitation, and cosmology, ISSN:2470-0010, eISSN:2470-0029, Изд:The American Physical Society, 96, 3, 032003, 2017

70. Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on parton distribution functions

CMS Collaboration (A. Sirunyan et al.), The European Physical Journal C - Particles and Fields, ISSN:1434-6044, eISSN:1434-6052, Изд:Springer Berlin Heidelberg, 77, 11, 746, 2017

71. Search for charged Higgs bosons produced via vector boson fusion and decaying into a pair of W and Z bosons using proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Physical Review Letters, ISSN:0031-9007, eISSN:1079-7114, Изд:The American Physical Society, 119, 14, 141802, 2017

72. Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), The European Physical Journal C - Particles and Fields, ISSN:1434-6044, eISSN:1434-6052, Изд:Springer Berlin Heidelberg, 77, 10, 710, 2017

73. Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets

eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 10, 131, 2017

85. Measurement of the semileptonic $t\bar{t}+\gamma$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 10, 006, 2017

86. Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 775, 315-337, 2017

87. Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 11, 047, 2017

88. Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13$ TeV

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89. Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Physical Review D, particles, fields, gravitation, and cosmology, ISSN:1550-7998, eISSN:1550-2368, Изд:The American Physical Society, 96, 11, 112003, 2017

90. A search for Higgs boson pair production in the $b\bar{b}\tau\tau$ final state in proton-proton collisions at $\sqrt{s} = 8$ TeV

CMS Collaboration (A. Sirunyan et al.), Physical Review D, covering particles, fields, gravitation, and cosmology, ISSN:2470-0010, eISSN:2470-0029, Изд:The American Physical Society, 96, 7, 072004, 2017

91. Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state

CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 775, 1-24, 2017

92. Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), The European Physical Journal C - Particles and Fields, ISSN:1434-6044, eISSN:1434-6052, Изд:Springer Berlin Heidelberg, 77, 09, 636, 2017

93. Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 10, 005, 2017

94. Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Physical Review D, particles, fields, gravitation, and

105. Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s} = 8$ TeV
CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 03, 167, 2018
106. Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at $\sqrt{s} = 13$ TeV
CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 778, 263-291, 2018
107. Observation of the Higgs boson decay to a pair of tau leptons with the CMS detector
CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 779, 283-316, 2018
108. Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at $\sqrt{s} = 13$ TeV
CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 781, 574-600, 2018
109. Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the LHC
CMS Collaboration (A. Sirunyan et al.), Physical Review C, Nuclear Physics, ISSN:0556-2813, eISSN:1089-490X, Изд:The American Physical Society, 97, 4, 044912, 2018
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112. Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\ell\nu\ell\nu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV
CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 01, 054, 2018
113. Nuclear modification factor of D^0 mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 782, 474-496, 2018
114. Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at $\sqrt{s} = 13$ TeV
CMS Collaboration (A. Sirunyan et al.), Physical Review D, covering particles, fields, gravitation, and cosmology, ISSN:2470-0010, eISSN:2470-0029, Изд:The American Physical Society, 97, 7, 072006, 2018
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127. Observation of correlated azimuthal anisotropy Fourier harmonics in pp and p+Pb collisions at the LHC

CMS Collaboration (A. Sirunyan et al.), Physical Review Letters, ISSN:0031-9007, eISSN:1079-7114, Изд:The American Physical Society, 120, 9, 092301, 2018

128. Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 780, 384-409, 2018

129. Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Journal of High Energy Physics, ISSN:1126-6708, eISSN:1029-8479, Изд:Springer Berlin Heidelberg, 01, 097, 2018

130. Search for pair production of vector-like quarks in the $b W b\text{-bar} W$ channel from proton-proton collisions at $\sqrt{s} = 13$ TeV

CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 779, 82-106, 2018

131. Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7$ TeV

CMS Collaboration (A. Sirunyan et al.), The European Physical Journal C - Particles and Fields, ISSN:1434-6044, eISSN:1434-6052, Изд:Springer Berlin Heidelberg, 78, 3, 242, 2018

132. Measurement of angular parameters from the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV

CMS Collaboration (A. Sirunyan et al.), Physics Letters B, ISSN:0370-2693, eISSN:1873-2445, Изд:Elsevier Science Limited, 781, 517-541, 2018

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