



## Publicaciones Realizadas 2014

**Jury, M.R. 2014** *Climate and weather interactions in the eastern Antilles and the 2013 Christmas storm*, Earth Interactions, 18, 1-20.

**Jury, M.R. 2014** *Environmental forcing of red tides in the southern Benguela*, Intl J Oceanography, doi:10.1155/2014/325321

**Jury, M.R. 2014** *Evaluation of coupled model forecasts of Ethiopian highlands summer climate*, Advances in Meteorol doi:10.1155/2014/894318

**Jury, M.R. 2014** *Malawi's Shire River fluctuations and climate*, J. Hydro-meteorology 15, 2039–2049.

**Jury, M.R. 2014** *Southern Ethiopia Rift Valley lake fluctuations and climate*, Scientific Research and Essays 9, 794 – 805.

**Jury, M.R. 2014** *Statistical prediction of summer rainfall and vegetation in the Ethiopian highlands*, Advances in Meteorology doi:10.1155/2014/294639

**Jury, M.R. 2014**, *Evaluation of CMIP5 model simulations for the Ethiopian highlands*, Intl J. Climatol. Doi:10.1002/joc.3960

**Jury, M.R. 2014**, *Factors contributing to a decadal oscillation in South African rainfall*, Theor Appl Climatol. 120, 227-237

Dr. Mark R. Jury

Dr. Yong-Jihn Kim

**Yong-Jihn Kim**, "A New Method of Enhancing High Field Properties of Type II Superconductors, Including MgB<sub>2</sub>", submitted to Journal of Applied Physics, June, 1, 2014.

Dr. Jun-Qiang Lu

José Álvarez, Dmitry Skachkov, Steven E. Maseym, **Jun-Qiang Lu**, Alan Kalitsov, Julian P. Velez. *Intrinsic noise from neighboring nucleobases in the DNA transverse tunneling current*, Phys. Rev. Applied 1, 034001, 2014. (Selected as Editor's Suggestion).

*Determination of the top-quark pole mass and strong coupling constant from the  $t$   $t$ -bar production cross section in  $pp$  collisions at  $\sqrt{s} = 7$  TeV*  
CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Aug 21, 2014. 22 pp.  
Published in Phys.Lett. B728 (2014) 496-517, Erratum: Phys.Lett. B738 (2014) 526-528

*Study of the production of charged pions, kaons, and protons in  $pPb$  collisions at  $\sqrt{s_{NN}} = 5.02$  TeV*  
CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Jul 12, 2013. 37 pp.  
Published in Eur.Phys.J. C74 (2014) no.6, 2847




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*Measurement of the top-quark mass in all-jets  $tt^-$  events in  $pp$  collisions at  $s\sqrt{s}=7$  TeV*  
 CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Jul 17, 2013. 33 pp.  
 Published in Eur.Phys.J. C74 (2014) no.4, 2758

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*Muon reconstruction and identification with the Run II D0 detector*  
 D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Jul 19, 2013. 14 pp.  
 Published in Nucl.Instrum.Meth. A737 (2014) 281-294

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*Measurement of associated production of Z bosons with charm quark jets in  $pp^-pp^-$  collisions at  $s\sqrt{s}=1.96s=1.96$  TeV*  
 D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Aug 20, 2013. 7 pp.  
 Published in Phys.Rev.Lett. 112 (2014) no.4, 042001

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*Measurement of the  $W\gamma W\gamma$  and  $Z\gamma Z\gamma$  inclusive cross sections in  $pppp$  collisions at  $s\sqrt{s}=7$  TeV and limits on anomalous triple gauge boson couplings*  
 CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Aug 30, 2013. 32 pp.  
 Published in Phys.Rev. D89 (2014) no.9, 092005

*Dr. Sudhir Malik,*  
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*Search for the  $X(4140)X(4140)$  state in  $B^+\rightarrow J/\psi\phi K+B^+\rightarrow J/\psi\phi K^+$  decays with the D0 detector*  
 D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Sep 25, 2013. 9 pp.  
 Published in Phys.Rev. D89 (2014) no.1, 012004

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*Observation of a peaking structure in the  $J/\psi\phi J/\psi\phi$  mass spectrum from  $B^\pm\rightarrow J/\psi\phi K^\pm B^\pm\rightarrow J/\psi\phi K^\pm$  decays*  
 CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Sep 26, 2013. 21 pp.  
 Published in Phys.Lett. B734 (2014) 261-281

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*Combination of measurements of the top-quark pair production cross section from the Tevatron Collider*  
 CDF and D0 Collaborations (Timo Antero Aaltonen (Helsinki U. & Helsinki Inst. of Phys.) et al.). Sep 29, 2013. 17 pp.  
 Published in Phys.Rev. D89 (2014) no.7, 072001

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*Modification of jet shapes in  $PbPb$  collisions at  $s_{NN}=\sqrt{s}=2.76s_{NN}=2.76$  TeV*  
 CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Oct 2, 2013. 21 pp.  
 Published in Phys.Lett. B730 (2014) 243-263

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*Measurement of associated  $W + \text{charm}$  production in  $pp$  collisions at  $s\sqrt{s} = 7 \text{ TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Oct 3, 2013. 63 pp.

Published in JHEP 1402 (2014) 013

*Search for baryon number violation in top-quark decays*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Oct 6, 2013. 24 pp.

Published in Phys.Lett. B731 (2014) 173-196

*Search for the standard model Higgs boson produced in association with a  $W$  or a  $Z$  boson and decaying to bottom quarks*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Oct 14, 2013. 36 pp.

Published in Phys.Rev. D89 (2014) no.1, 012003

*Measurement of the  $WW$  boson mass with the  $D0$  detector*

$D0$  Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Oct 31, 2013. 46 pp.

Published in Phys.Rev. D89 (2014) no.1, 012005

*Measurement of higher-order harmonic azimuthal anisotropy in  $PbPb$  collisions at  $s\sqrt{s} = 2.76 \text{ TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Oct 31, 2013. 31 pp.

Published in Phys.Rev. C89 (2014) no.4, 044906

*Searches for light- and heavy-flavour three-jet resonances in  $pp$  collisions at  $s\sqrt{s} = 8 \text{ TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Nov 7, 2013. 22 pp.

Published in Phys.Lett. B730 (2014) 193-214

*Measurements of  $t\bar{t}t\bar{t}$  spin correlations and top-quark polarization using dilepton final states in  $pppp$  collisions at  $s\sqrt{s} = 7 \text{ TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Nov 15, 2013. 16 pp.

Published in Phys.Rev.Lett. 112 (2014) no.18, 182001

*Search for supersymmetry in  $pp$  collisions at  $s\sqrt{s} = 8 \text{ TeV}$  in events with a single lepton, large jet multiplicity, and multiple  $b$  jets*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Nov 19, 2013. 26 pp.

Published in Phys.Lett. B733 (2014) 328-353

*Search for pair production of excited top quarks in the lepton + jets final state*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Nov 21, 2013. 35 pp.

Published in JHEP 1406 (2014) 125



*Probing color coherence effects in pp collisions at  $s\sqrt{=7TeV_s=7TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Nov 22, 2013. 31 pp.

Published in Eur.Phys.J. C74 (2014) no.6, 2901

*Measurement of the triple-differential cross section for photon+jets production in proton-proton collisions at  $s\sqrt{s}=7 TeV$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Nov 24, 2013. 35 pp.

Published in JHEP 1406 (2014) 009

*Search for new physics in events with same-sign dileptons and jets in pp collisions at  $s\sqrt{s} = 8 TeV$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Nov 26, 2013. 45 pp.

Published in JHEP 1401 (2014) 163, Erratum: JHEP 1501 (2015) 014

*Inclusive search for a vector-like T quark with charge 2/3 in pp collisions at  $s\sqrt{s} = 8 TeV$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Nov 29, 2013. 23 pp.

Published in Phys.Lett. B729 (2014) 149-171

*Measurement of the direct CP-violating charge asymmetry in  $D\pm s \rightarrow \phi \pi^\pm D s^\pm \rightarrow \phi \pi^\pm$  decays*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Dec 3, 2013. 8 pp.

Published in Phys.Rev.Lett. 112 (2014) no.11, 111804

*Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 4, 2013. 86 pp.

Published in JHEP 1401 (2014) 096

*Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at  $s\sqrt{NN} = 2.76 TeV$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 6, 2013. 38 pp.

Published in JHEP 1402 (2014) 088

*Search for top-quark partners with charge 5/3 in the same-sign dilepton final state*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 9, 2013. 16 pp.

Published in Phys.Rev.Lett. 112 (2014) no.17, 171801

*Measurement of the W Boson Production Charge Asymmetry*

*in  $pp \rightarrow W+X \rightarrow ev+X$  and  $pp \rightarrow W+X \rightarrow ev+X$  Events at  $s\sqrt{s}=1.96s=1.96 TeV$*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Dec 10, 2013. 7 pp.

Published in Phys.Rev.Lett. 112 (2014) no.15, 151803, Erratum: Phys.Rev.Lett. 114 (2015) no.4, 049901

*Search for top squark and higgsino production using diphoton Higgs boson decays*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 11, 2013. 15 pp.

Published in Phys.Rev.Lett. 112 (2014) 161802

*Search for Flavor-Changing Neutral Currents in Top-Quark**Decays  $t \rightarrow Zqt \rightarrow Zq$  in pppp Collisions at  $s\sqrt{s}=8$  TeV*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 15, 2013. 16 pp.

Published in Phys.Rev.Lett. 112 (2014) no.17, 171802

*Evidence of b-Jet Quenching in PbPb Collisions at  $s\sqrt{s}=2.76$  TeV*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 15, 2013. 16 pp.

Published in Phys.Rev.Lett. 113 (2014) no.13, 132301, Erratum: Phys.Rev.Lett. 115 (2015) no.2, 029903

*Measurement of the properties of a Higgs boson in the four-lepton final state*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 18, 2013. 45 pp.

Published in Phys.Rev. D89 (2014) no.9, 092007

*Study of double parton scattering using W + 2-jet events in proton-proton collisions**at  $s\sqrt{s}=7$  TeV*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 19, 2013. 45 pp.

Published in JHEP 1403 (2014) 032

*Measurement of the muon charge asymmetry in inclusive  $pp \rightarrow W+X$  production**at  $s\sqrt{s}=7$  TeV and an improved determination of light parton distribution functions*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 21, 2013. 33 pp.

Published in Phys.Rev. D90 (2014) no.3, 032004

*Event activity dependence of  $Y(nS)$  production in  $s\sqrt{s}=5.02$  TeV pPb**and  $s\sqrt{s}=2.76$  TeV pp collisions*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 21, 2013. 37 pp.

Published in JHEP 1404 (2014) 103

*Measurement of four-jet production in proton-proton collisions at  $s\sqrt{s}=7$  TeV*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 22, 2013. 19 pp.

Published in Phys.Rev. D89 (2014) no.9, 092010

*Measurement of the production cross section for a W boson and two b jets in pp collisions**at  $s\sqrt{s}=7$  TeV*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 23, 2013. 22 pp.

Published in Phys.Lett. B735 (2014) 204-225



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*Jet energy scale determination in the D0 experiment*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Dec 24, 2013. 33

pp.

Published in Nucl.Instrum.Meth. A763 (2014) 442-475

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*Measurement of the  $t\bar{t}$  production cross section in the dilepton channel in pp collisions at  $\sqrt{s} = 8$  TeV*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Dec 29, 2013. 32 pp.

Published in JHEP 1402 (2014) 024, Erratum: JHEP 1402 (2014) 102

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*Improved bb quark jet identification at the D0 experiment*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Dec 29, 2013. 13

pp.

Published in Nucl.Instrum.Meth. A763 (2014) 290-303

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*Electron and Photon Identification in the D0 Experiment*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Dec 30, 2013. 18

pp.

Published in Nucl.Instrum.Meth. A750 (2014) 78-95

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*Observation of the associated production of a single top quark and a WW boson in ppp collisions at  $\sqrt{s} = 8$  TeV*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Jan 13, 2014. 16 pp.

Published in Phys.Rev.Lett. 112 (2014) no.23, 231802

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*Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Jan 17, 2014. 35 pp.

Published in Eur.Phys.J. C74 (2014) no.7, 2951

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*Evidence for the 125 GeV Higgs boson decaying to a pair of  $\tau$  leptons*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Jan 20, 2014. 72 pp.

Published in JHEP 1405 (2014) 104

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*Measurement of differential  $t\bar{t}$  production cross sections in  $pp$  collisions*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Jan 22, 2014. 19

pp.

Published in Phys.Rev. D90 (2014) no.9, 092006

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*Evidence for the direct decay of the 125 GeV Higgs boson to fermions*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Jan 25, 2014. 25 pp.

Published in Nature Phys. 10 (2014) 557-560

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*Measurement of inclusive W and Z boson production cross sections in pp collisions at  $s\sqrt{s} = 8 \text{ TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Feb 4, 2014. 17 pp.  
Published in Phys.Rev.Lett. 112 (2014) 191802

*Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at  $\sqrt{s} = 7 \text{ TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Feb 6, 2014. 39 pp.  
Published in JHEP 1406 (2014) 120

*Double parton interactions in  $\gamma+3\gamma+3 \text{ jet}$  and  $\gamma+b/\text{cjet}+2\gamma+b/\text{cjet}+2 \text{ jet}$  events in  $pp^-pp^-$  collisions at  $s\sqrt{s}=1.96s=1.96 \text{ TeV}$*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Feb 6, 2014. 15 pp.  
Published in Phys.Rev. D89 (2014) no.7, 072006

*Search for  $W' \rightarrow \rightarrow tb$  decays in the lepton + jets final state in pp collisions at  $s\sqrt{s} = 8 \text{ TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Feb 10, 2014. 35 pp.  
Published in JHEP 1405 (2014) 108

*Measurements of the  $tt^-tt^-$  charge asymmetry using the dilepton decay channel in pp collisions at  $s\sqrt{s}=7 \text{ TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Feb 16, 2014. 35 pp.  
Published in JHEP 1404 (2014) 191

*Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at  $s\sqrt{s}=8 \text{ TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Feb 19, 2014. 38 pp.  
Published in JHEP 1406 (2014) 055

*Observation of s-channel production of single top quarks at the Tevatron*

CDF and D0 Collaborations (Timo Antero Aaltonen (Helsinki U. & Helsinki Inst. of Phys.) et al.). Feb 20, 2014. 11 pp.  
Published in Phys.Rev.Lett. 112 (2014) 231803

*Measurement of the forward-backward asymmetry in the distribution of leptons in  $tt^-tt^-$  events in the lepton++jets channel*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Mar 5, 2014. 19 pp.  
Published in Phys.Rev. D90 (2014) 072001

*Alignment of the CMS tracker with LHC and cosmic ray data*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Mar 10, 2014. 56 pp.  
Published in JINST 9 (2014) P06009

*Measurement of WZ and ZZ production in pp collisions at  $s\sqrt{s}=8\text{TeV}$  in final states with b-tagged jets*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Mar 12, 2014. 22 pp.  
Published in Eur.Phys.J. C74 (2014) no.8, 2973

*Measurement of the t-channel single-top-quark production cross section and of the  $|V_{tb}|/|V_{tq}|$  CKM matrix element in pp collisions at  $s\sqrt{s}=8\text{TeV}$* 

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). Mar 28, 2014. 43 pp.  
Published in JHEP 1406 (2014) 090

*Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Apr 4, 2014. 35 pp.  
Published in Eur.Phys.J. C74 (2014) 2980

*Measurement of the ratio  $B(t\rightarrow Wb)/B(t\rightarrow Wq)B(t\rightarrow Wb)/B(t\rightarrow Wq)$  in pp collisions at  $s\sqrt{s}=8\text{TeV}$* 

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). Apr 8, 2014. 25 pp.  
Published in Phys.Lett. B736 (2014) 33-57

*Search for  $WW\gamma WW\gamma$  and  $WZ\gamma WZ\gamma$  production and constraints on anomalous quartic gauge couplings in pppp collisions at  $s\sqrt{s}=8\text{TeV}$* 

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Apr 17, 2014. 20 pp.  
Published in Phys.Rev. D90 (2014) no.3, 032008

*Search for anomalous production of events with three or more leptons in pppp collisions at  $(\sqrt{s})=(s)=8\text{TeV}$* 

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Apr 23, 2014. 27 pp.  
Published in Phys.Rev. D90 (2014) 032006

*Measurement of the forward-backward asymmetry in top quark-antiquark production in pppbar collisions using the lepton+jets channel*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). May 2, 2014. 16 pp.  
Published in Phys.Rev. D90 (2014) 072011






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*Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at  $s\sqrt{s} = 8$  TeV by the CMS and TOTEM experiments*

CMS and TOTEM Collaborations (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). May 4, 2014. 26 pp.

Published in Eur.Phys.J. C74 (2014) no.10, 3053

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*Precision measurement of the top-quark mass in lepton+jets final states*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). May 7, 2014. 8 pp.

Published in Phys.Rev.Lett. 113 (2014) 032002

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*Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at  $s\sqrt{s} = 8$  TeV*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). May 8, 2014. 37 pp.

Published in JHEP 1408 (2014) 173

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*Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at  $s\sqrt{s} = 8$  TeV*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). May 14, 2014. 59 pp.

Published in JHEP 1408 (2014) 174

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*Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). May 14, 2014. 22 pp.

Published in Phys.Lett. B736 (2014) 64-85

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*Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at  $s\sqrt{s} = 8$  TeV*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). May 15, 2014. 27 pp.

Published in Phys.Lett. B736 (2014) 371-397

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*Search for supersymmetry with razor variables in pp collisions at  $s\sqrt{s} = 7$  TeV*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). May 15, 2014. 40 pp.

Published in Phys.Rev. D90 (2014) no.11, 112001

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*Measurement of the differential  $\gamma+2$   $b\gamma+2$  b-jet cross section and the ratio  $\sigma(\gamma+2$   $b\gamma+2$  b-jets)/ $\sigma(\gamma+b\gamma+b$ -jet) in  $pp^-pp^-$  collisions at  $s\sqrt{s} = 1.96$  TeV*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). May 15, 2014. 9 pp.

Published in Phys.Lett. B737 (2014) 357-365

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*Description and performance of track and primary-vertex reconstruction with the CMS tracker*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). May 26, 2014. 80 pp.  
Published in JINST 9 (2014) no.10, P10009

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*Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at  $s\sqrt{s}=7\text{TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). May 28, 2014. 41 pp.  
Published in Eur.Phys.J. C74 (2014) no.11, 3129

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*Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). May 29, 2014. 42 pp.  
Published in Eur.Phys.J. C74 (2014) no.9, 3036

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*Search for jet extinction in the inclusive jet-ptpt spectrum from proton-proton collisions at  $s\sqrt{s}=8\text{TeV}$*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). May 29, 2014. 17 pp.  
Published in Phys.Rev. D90 (2014) no.3, 032005

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*Measurement of the ratio of inclusive jet cross sections using the anti-kT algorithm with radius parameters  $R=0.5$  and  $0.7$  in pp collisions at  $s\sqrt{s}=7\text{TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Jun 2, 2014. 22 pp.  
Published in Phys.Rev. D90 (2014) no.7, 072006

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*Measurement of prompt  $J/\psi$  pair production in pp collisions at  $s\sqrt{s}=7\text{TeV}$*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). Jun 2, 2014. 35 pp.  
Published in JHEP 1409 (2014) 094

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*Measurement of jet fragmentation in PbPb and pp collisions at  $s\sqrt{s}=2.76\text{TeV}$*

CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Jun 3, 2014. 20 pp.  
Published in Phys.Rev. C90 (2014) no.2, 024908

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*Observation and studies of double  $J/\psi$  production at the Tevatron*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Jun 9, 2014. 9 pp.  
Published in Phys.Rev. D90 (2014) no.11, 111101

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*Search for excited quarks in the  $\gamma+\gamma+\text{jet}$  final state in proton–proton collisions at  $s\sqrt{=8s=8}$  TeV*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). Jun 19, 2014. 20 pp.  
Published in Phys.Lett. B738 (2014) 274-293

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*Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at  $s\sqrt{=8s=8}$  TeV*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). Jun 30, 2014. 26 pp.  
Published in Eur.Phys.J. C74 (2014) no.9, 3060

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*Observation of the diphoton decay of the Higgs boson and measurement of its properties*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). Jul 2, 2014. 49 pp.  
Published in Eur.Phys.J. C74 (2014) no.10, 3076

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*Study of hadronic event-shape variables in multijet final states in pp collisions at  $\text{sqrt}(s) = 7$  TeV*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). Jul 10, 2014. 34 pp.  
Published in JHEP 1410 (2014) 87

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*Search for heavy neutrinos and WW bosons with right-handed couplings in proton-proton collisions at  $s\sqrt{=8TeV_s=8TeV}$*

CMS Collaboration (Vardan Khachatryan (Yerevan Phys. Inst.) et al.). Jul 14, 2014. 59 pp.  
Published in Eur.Phys.J. C74 (2014) no.11, 3149

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*Measurement of the Electric Charge of the Top Quark in  $tt^-tt^-$  Events*

D0 Collaboration (Victor Mukhamedovich Abazov (Dubna, JINR) et al.). Jul 17, 2014. 8 pp.  
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