

Publications depuis 2012

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1. **“Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at $\sqrt{s}=8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1502.00300 [hep-ex]
2. **“Measurements of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) differential cross sections in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1501.07750 [hep-ex]
3. **“Measurement of the ratio $B(B[0,s] \text{ to } J/\psi f_0(980)) / B(B[0,s] \text{ to } J/\psi \phi(1020))$ in pp collisions at $\sqrt{s} = 7$ TeV”**
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arXiv:1501.06089 [hep-ex]
4. **“Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
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5. **“Search for heavy Majorana neutrinos in $\mu^+/- \mu^+/- +$ jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
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6. **“Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s}=8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
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7. **“Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV”**
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8. **“Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
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10. **“Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.4109 [hep-ex]

11. **“Pion and proton showers in the CALICE scintillator-steel analogue hadron calorimeter”**
B. Bilki *et al.* [The CALICE Collaboration].
arXiv:1412.2653 [physics.ins-det]
12. **“Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.1633 [hep-ex]
13. **“Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
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14. **“Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV”**
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22. **“Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV”**
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27. **“Identification techniques for highly boosted W bosons that decay into hadrons”**
V. Khachatryan *et al.* [CMS Collaboration].
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28. **“Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
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34. **“Measurement of the production cross section ratio $\sigma(\chi_{b2}(1P))/\sigma(\chi_{b1}(1P))$ in pp collisions at $\sqrt{s} = 8$ TeV”**
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38. **“Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
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48. **“Observation of the diphoton decay of the Higgs boson and measurement of its properties”**
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49. **“Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV”**
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53. **“Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV”**
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54. **“Measurement of the ratio of inclusive jet cross sections using the anti- k_T algorithm with radius parameters $R=0.5$ and 0.7 in pp collisions at $\sqrt{s} = 7\text{TeV}$ ”**
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61. **“Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $\sqrt{s}=8\text{ TeV}$ ”**
V. Khachatryan *et al.* [CMS Collaboration].
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62. **“Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs”**
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63. **“Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV”**
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66. **“The Time Structure of Hadronic Showers in highly granular Calorimeters with Tungsten and Steel Absorbers”**
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67. **“Search for anomalous production of events with three or more leptons in pp collisions at $\sqrt{s} = 8$ TeV”**
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70. **“Measurement of the ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in pp collisions at $\sqrt{s} = 8$ TeV”**
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71. **“Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes”**
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72. **“Measurement of the t-channel single-top-quark production cross section and of the $|V_{tb}|$ CKM matrix element in pp collisions at $\sqrt{s}=8$ TeV”**
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75. **“Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s}=8$ TeV”**
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S. Chatrchyan *et al.* [CMS Collaboration].
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80. **“Evidence for the direct decay of the 125 GeV Higgs boson to fermions”**
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83. **“Observation of the associated production of a single top quark and a W boson in pp collisions at $\sqrt{s} = 8$ TeV”**
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84. **“Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV”**
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85. **“Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s} = 7$ TeV”**
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87. **“Event activity dependence of $Y(nS)$ production in $\sqrt{s_{NN}} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions”**
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88. **“Measurement of the muon charge asymmetry in inclusive $pp \rightarrow W + X$ production at $\sqrt{s} = 7$ TeV and an improved determination of light parton distribution functions”**
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89. **“Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
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91. **“Evidence of b-Jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76\text{TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
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