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Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at root s=13TeV

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JOURNAL OF HIGH ENERGY PHYSICS

Issue: 3

Article Number: 076

DOI: 10.1007/JHEP03(2018)076

Published: MAR 13 2018

Document Type: Article

[View Journal Impact](#)

Abstract

Search results are presented for physics beyond the standard model in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum. The data sample corresponds to an integrated luminosity of 35.9 fb⁻¹ of proton-proton collisions at root s = 13TeV collected with the CMS detector at the LHC in 2016. The analysis uses the invariant mass of the lepton pair, searching for a kinematic edge or a resonant-like excess compatible with the Z boson mass. The search for a kinematic edge targets production of particles sensitive to the strong force, while the resonance search targets both strongly and electroweakly produced new physics. The observed yields are consistent with the expectations from the standard model, and the results are interpreted in the context of simplified models of supersymmetry. In a gauge mediated supersymmetry breaking (GMSB) model of gluino pair production with decay chains including Z bosons, gluino masses up to 1500-1770 GeV are excluded at the 95% confidence level depending on the lightest neutralino mass. In a model of electroweak chargino-neutralino production, chargino masses as high as 610 GeV are excluded when the lightest neutralino is massless. In GMSB models of electroweak neutralino-neutralino production, neutralino masses up to 500-650 GeV are excluded depending on the decay mode assumed. Finally, in a model with bottom squark pair production and decay chains resulting in a kinematic edge in the dilepton invariant mass distribution, bottom squark masses up to 980-1200 GeV are excluded depending on the mass of the next-to-lightest neutralino.

Keywords

Author Keywords: [Hadron-Hadron scattering \(experiments\)](#); [Supersymmetry](#); [Beyond Standard Model](#); [Lepton production](#)KeyWords Plus: [HADRON COLLIDERS](#); [SUPERGAUGE TRANSFORMATIONS](#); [MEASURING MASSES](#); [SUPERSYMMETRY](#); [PHYSICS](#); [MODEL](#); [EXTENSION](#); [INVARIANT](#); [NEUTRINO](#); [ENERGY](#)

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By: Aad, G.; Abbott, B.; Abdallah, J.; et al.
 Group Author(s): ATLAS Collaboration
 EUROPEAN PHYSICAL JOURNAL C Volume: 75 Issue: 7 Article Number: 318 Published: JUL 8 2015
- The Fast Simulation of the CMS Detector at LHC** Times Cited: **73**

By: Abdullin, S.; Beaudette, P. Azzi F.; Jannot, P.; et al.
 Group Author(s): CMS Collaboration
 INTERNATIONAL CONFERENCE ON COMPUTING IN HIGH ENERGY AND NUCLEAR PHYSICS (CHEP 2010): EVENT PROCESSING Book Series: Journal of Physics Conference Series Volume: 331 Article Number: 032049 Published: 2011
- GEANT4-a simulation toolkit** Times Cited: **10,213**

By: Agostinelli, S; Allison, J; Amako, K; et al.
 NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 506 Issue: 3 Pages: 250-303 Published: JUL 1 2003
- Title: [not available] Times Cited: **4**

By: ALIOLI S
 JHEP Volume: 9 Published: 2009
- Simplified models for LHC new physics searches** Times Cited: **210**

By: Alves, Daniele; Arkani-Hamed, Nima; Arora, Sanjay; et al.
 Group Author(s): LHC New Phys Working Grp
 JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS Volume: 39 Issue: 10 Article Number: 105005 Published: OCT 2012
- Comparative study of various algorithms for the merging of parton showers and matrix elements in hadronic collisions** Times Cited: **431**

By: Alwall, J.; Hoche, S.; Krauss, F.; et al.
 EUROPEAN PHYSICAL JOURNAL C Volume: 53 Issue: 3 Pages: 473-500 Published: FEB 2008
- The automated computation of tree-level and next-to-leading order differential cross sections, and their matching to parton shower simulations** Times Cited: **1,798**

By: Alwall, J.; Frederix, R.; Frixione, S.; et al.
 JOURNAL OF HIGH ENERGY PHYSICS Issue: 7 Article Number: 079 Published: JUL 17 2014

8. **Simplified models for a first characterization of new physics at the LHC** Times Cited: 195
 By: Alwall, Johan; Schuster, Philip C.; Toro, Natalia
 PHYSICAL REVIEW D Volume: 79 Issue: 7 Article Number: 075020 Published: APR 2009
9. **Model-independent jets plus missing energy searches** Times Cited: 101
 By: Alwall, Johan; Le, My-Phuong; Lisanti, Mariangela; et al.
 PHYSICAL REVIEW D Volume: 79 Issue: 1 Article Number: 015005 Published: JAN 2009
10. **MARMOSSET: The Path from LHC Data to the New Standard Model via On-Shell Effective Theories** Times Cited: 29
 By: Arkani-Hamed, N.
 hep-ph/0703088
11. **Procedure for the LHC Higgs boson search combination in Summer 2011, ATL-PIIYS-PUB-2011-011** Times Cited: 1
 Group Author(s): ATLAS, CMS collaborations and the LHC Higgs Combination Group
 CMS-NOTE-2011-005 Published: 2011
 Publisher: CERN, Geneva Switzerland
12. **Search for new phenomena in events containing a same-flavour oppositesign dilepton pair, jets, and large missing transverse momentum in $s = 13$ TeV** Times Cited: 8
 $\documentclass[12pt]{minimal} \usepackage{amsmath} \usepackage{wasysym} \usepackage{amsfonts} \usepackage{amssymb} \usepackage{amsbsy} \usepackage{mathrsfs} \usepackage{upgreek} \setlength{\oddsidemargin}{-69pt} \begin{document} \sqrt{s} = 13 \text{ TeV} \end{document}$ pp collisions with the ATLAS detector
 Group Author(s): ATLAS Collaboration
 Eur. Phys. J. C Volume: 77 Pages: 144 Published: 2017
13. **Search for the electroweak production of supersymmetric particles in $s = 8$ TeV** Times Cited: 32
 $\documentclass[12pt]{minimal} \usepackage{amsmath} \usepackage{wasysym} \usepackage{amsfonts} \usepackage{amssymb} \usepackage{amsbsy} \usepackage{mathrsfs} \usepackage{upgreek} \setlength{\oddsidemargin}{-69pt} \begin{document} \sqrt{s} = 8 \end{document}$ TeV pp collisions with the ATLAS detector
 Group Author(s): ATLAS collaboration
 Phys. Rev. Volume: D 93 Article Number: 052002 Published: 2016
14. **Parton distributions for the LHC run II** Times Cited: 581
 By: Ball, Richard D.; Bertone, Valerio; Carrazza, Stefano; et al.
 Group Author(s): NNPDF Collaboration
 JOURNAL OF HIGH ENERGY PHYSICS Issue: 4 Article Number: 040 Published: APR 8 2015
15. **A variable for measuring masses at hadron colliders when missing energy is expected; $m(T_2)$: the truth behind the glamour** Times Cited: 332
 By: Barr, A; Lester, C; Stephens, P
 JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS Volume: 29 Issue: 10 Pages: 2343-2363 Article Number: PII S0954-3899(03)62652-6
 Published: OCT 2003
16. **Squark and gluino production cross sections in pp collisions at root $s=13, 14, 33$ and 100 TeV** Times Cited: 121
 By: Borschensky, Christoph; Kraemer, Michael; Kulesza, Anna; et al.
 EUROPEAN PHYSICAL JOURNAL C Volume: 74 Issue: 12 Article Number: 3174 Published: DEC 4 2014
17. **ASPECTS OF GRAND UNIFICATION OF STRONG, WEAK AND ELECTROMAGNETIC-INTERACTIONS** Times Cited: 908
 By: BURAS, AJ; ELLIS, J; GAILLARD, MK; et al.
 NUCLEAR PHYSICS B Volume: 135 Issue: 1 Pages: 66-92 Published: 1978
18. **FastJet user manual** Times Cited: 1,560
 By: Cacciari, Matteo; Salam, Gavin P.; Soyez, Gregory
 EUROPEAN PHYSICAL JOURNAL C Volume: 72 Issue: 3 Article Number: 1896 Published: MAR 2012
19. **The anti-k(t) jet clustering algorithm** Times Cited: 1,831
 By: Cacciari, Matteo; Salam, Gavin P.; Soyez, Gregory
 JOURNAL OF HIGH ENERGY PHYSICS Issue: 4 Article Number: 063 Published: APR 2008
20. **Pileup subtraction using jet areas** Times Cited: 458
 By: Cacciari, Matteo; Salam, Gavin P.
 PHYSICS LETTERS B Volume: 659 Issue: 1-2 Pages: 119-126 Published: JAN 17 2008

21. **Dispelling the N-3 myth for the k(t) jet-finder** Times Cited: 877
By: Cacciari, Matteo; Salam, Gavin P.
PHYSICS LETTERS B Volume: 641 Issue: 1 Pages: 57-61 Published: SEP 28 2006
22. **Determination of jet energy calibration and transverse momentum resolution in CMS** Times Cited: 442
By: Chatrchyan, S.; Khachatryan, V.; Sirunyan, A. M.; et al.
Group Author(s): CMS Collaboration
JOURNAL OF INSTRUMENTATION Volume: 6 Article Number: P11002 Published: NOV 2011
23. **The CMS experiment at the CERN LHC** Times Cited: 1,505
By: Chatrchyan, S.; Hmayakyan, G.; Khachatryan, V.; et al.
Group Author(s): CMS Collaboration
JOURNAL OF INSTRUMENTATION Volume: 3 Article Number: S08004 Published: AUG 2008
24. **Interpretation of searches for supersymmetry with simplified models** Times Cited: 58
By: Chatrchyan, S.; Khachatryan, V.; Sirunyan, A. M.; et al.
Group Author(s): CMS Collaboration
PHYSICAL REVIEW D Volume: 88 Issue: 5 Article Number: 052017 Published: SEP 23 2013
25. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root s=7 TeV** Times Cited: 30
By: Chatrchyan, S.; Collaboration, C. M. S.; Khachatryan, V.; et al.
PHYSICS LETTERS B Volume: 718 Issue: 3 Pages: 815-840 Published: JAN 8 2013
26. **Simplified likelihood for the re-interpretation of public CMS results** Times Cited: 1
Group Author(s): CMS collaboration
CMS-NOTE-2017-001 Published: 2017
Publisher: CERN, Geneva Switzerland
27. **CMS luminosity measurements for the 2016 data taking period** Times Cited: 2
Group Author(s): CMS collaboration
CMS-PAS-LUM-17-001 Published: 2017
Publisher: CERN, Geneva Switzerland
28. **Search for new physics in final states with two opposite-sign, same-flavor leptons, jets and missing transverse momentum in pp collisions at &RADIC;s = 13 TeV** Times Cited: 4
Group Author(s): CMS collaboration
JHEP Volume: 12 Article Number: 013 Published: 2016
INSPIRE
29. **Search for physics beyond the Standard Model in opposite-sign dilepton events at s= 7TeV** Times Cited: 5
Group Author(s): CMS collaboration
JHEP Volume: 06 Article Number: 026 Published: 2011
INSPIRE
30. **Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV** Times Cited: 1
Group Author(s): CMS collaboration
JINST Published: 2017
submitted to tnSPIRE

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