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Search for top-squark pair production in the single-lepton final state in pp collisions at $\sqrt{s} = 8 \text{ TeV}$

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Abstract

This paper presents a search for the pair production of top squarks in events with a single isolated electron or muon, jets, large missing transverse momentum, and large transverse mass. The data sample corresponds to an integrated luminosity of 19.5 fb^{-1} of pp collisions collected in 2012 by the CMS experiment at the LHC at a center-of-mass energy of $\sqrt{s} = 8 \text{ TeV}$. No significant excess in data is observed above the expectation from standard model processes. The results are interpreted in the context of supersymmetric models with pair production of top squarks that decay either to a top quark and a neutralino or to a bottom quark and a chargino. For small mass values of the lightest supersymmetric particle, top-squark mass values up to around 650 GeV are excluded.

Electronic Supplementary Material

The online version of this article (doi:[10.1140/epjc/s10052-013-2677-2](https://doi.org/10.1140/epjc/s10052-013-2677-2)) contains supplementary material, which is available to authorized users.

Concepts found in this article

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- E. Migliore⁽⁸⁷⁾ (88)
- V. Monaco⁽⁸⁷⁾ (88)
- M. Musich⁽⁸⁷⁾
- M. M. Obertino⁽⁸⁷⁾ (89)
- N. Pastrone⁽⁸⁷⁾
- M. Pelliccioni⁽⁸⁷⁾
- A. Potenza⁽⁸⁷⁾ (88)
- A. Romero⁽⁸⁷⁾ (88)
- M. Ruspa⁽⁸⁷⁾ (89)
- R. Sacchi⁽⁸⁷⁾ (88)
- A. Solano⁽⁸⁷⁾ (88)
- A. Staiano⁽⁸⁷⁾
- U. Tamponi⁽⁸⁷⁾
- S. Belforte⁽⁹⁰⁾

- V. Candelise⁽⁹⁰⁾⁽⁹¹⁾
- M. Casarsa⁽⁹⁰⁾
- F. Cossutti⁽⁹⁰⁾
- G. Della Ricca⁽⁹⁰⁾⁽⁹¹⁾
- B. Gobbo⁽⁹⁰⁾
- C. La Licata⁽⁹⁰⁾⁽⁹¹⁾
- M. Marone⁽⁹⁰⁾⁽⁹¹⁾
- D. Montanino⁽⁹⁰⁾⁽⁹¹⁾
- A. Penzo⁽⁹⁰⁾
- A. Schizzi⁽⁹⁰⁾⁽⁹¹⁾
- A. Zanetti⁽⁹⁰⁾
- S. Chang⁽⁹²⁾
- T. Y. Kim⁽⁹²⁾
- S. K. Nam⁽⁹²⁾
- D. H. Kim⁽⁹³⁾
- G. N. Kim⁽⁹³⁾
- J. E. Kim⁽⁹³⁾
- D. J. Kong⁽⁹³⁾
- S. Lee⁽⁹³⁾
- Y. D. Oh⁽⁹³⁾
- H. Park⁽⁹³⁾
- D. C. Son⁽⁹³⁾
- J. Y. Kim⁽⁹⁴⁾
- Zero J. Kim⁽⁹⁴⁾
- S. Song⁽⁹⁴⁾
- S. Choi⁽⁹⁵⁾
- D. Gyun⁽⁹⁵⁾
- B. Hong⁽⁹⁵⁾
- M. Jo⁽⁹⁵⁾
- H. Kim⁽⁹⁵⁾
- T. J. Kim⁽⁹⁵⁾
- K. S. Lee⁽⁹⁵⁾
- S. K. Park⁽⁹⁵⁾
- Y. Roh⁽⁹⁵⁾
- M. Choi⁽⁹⁶⁾
- J. H. Kim⁽⁹⁶⁾
- C. Park⁽⁹⁶⁾
- I. C. Park⁽⁹⁶⁾
- S. Park⁽⁹⁶⁾
- G. Ryu⁽⁹⁶⁾
- Y. Choi⁽⁹⁷⁾
- Y. K. Choi⁽⁹⁷⁾
- J. Goh⁽⁹⁷⁾
- M. S. Kim⁽⁹⁷⁾
- E. Kwon⁽⁹⁷⁾
- B. Lee⁽⁹⁷⁾
- J. Lee⁽⁹⁷⁾
- S. Lee⁽⁹⁷⁾
- H. Seo⁽⁹⁷⁾
- I. Yu⁽⁹⁷⁾
- I. Grigelionis⁽⁹⁸⁾
- A. Juodagalvis⁽⁹⁸⁾
- H. Castilla-Valdez⁽⁹⁹⁾

- E. De La Cruz-Burelo⁽⁹⁹⁾
- I. Heredia-de La Cruz⁽⁹⁹⁾
- R. Lopez-Fernandez⁽⁹⁹⁾
- J. Martinez-Ortega⁽⁹⁹⁾
- A. Sanchez-Hernandez⁽⁹⁹⁾
- L. M. Villasenor-Cendejas⁽⁹⁹⁾
- S. Carrillo Moreno⁽¹⁰⁰⁾
- F. Vazquez Valencia⁽¹⁰⁰⁾
- H. A. Salazar Ibarguen⁽¹⁰¹⁾
- E. Casimiro Linares⁽¹⁰²⁾
- A. Morelos Pineda⁽¹⁰²⁾
- M. A. Reyes-Santos⁽¹⁰²⁾
- D. Krofcheck⁽¹⁰³⁾
- P. H. Butler⁽¹⁰⁴⁾
- R. Doesburg⁽¹⁰⁴⁾
- S. Reucroft⁽¹⁰⁴⁾
- H. Silverwood⁽¹⁰⁴⁾
- M. Ahmad⁽¹⁰⁵⁾
- M. I. Asghar⁽¹⁰⁵⁾
- J. Butt⁽¹⁰⁵⁾
- H. R. Hoorani⁽¹⁰⁵⁾
- S. Khalid⁽¹⁰⁵⁾
- W. A. Khan⁽¹⁰⁵⁾
- T. Khurshid⁽¹⁰⁵⁾
- S. Qazi⁽¹⁰⁵⁾
- M. A. Shah⁽¹⁰⁵⁾
- M. Shoaib⁽¹⁰⁵⁾
- H. Bialkowska⁽¹⁰⁶⁾
- B. Boimska⁽¹⁰⁶⁾
- T. Frueboes⁽¹⁰⁶⁾
- M. Górska⁽¹⁰⁶⁾
- M. Kazana⁽¹⁰⁶⁾
- K. Nawrocki⁽¹⁰⁶⁾
- K. Romanowska-Rybinska⁽¹⁰⁶⁾
- M. Szleper⁽¹⁰⁶⁾
- G. Wrochna⁽¹⁰⁶⁾
- P. Zalewski⁽¹⁰⁶⁾
- G. Brona⁽¹⁰⁷⁾
- K. Bunkowski⁽¹⁰⁷⁾
- M. Cwiok⁽¹⁰⁷⁾
- W. Dominik⁽¹⁰⁷⁾
- K. Doroba⁽¹⁰⁷⁾
- A. Kalinowski⁽¹⁰⁷⁾
- M. Konecki⁽¹⁰⁷⁾
- J. Krolikowski⁽¹⁰⁷⁾
- M. Misiura⁽¹⁰⁷⁾
- W. Wolszczak⁽¹⁰⁷⁾
- N. Almeida⁽¹⁰⁸⁾
- P. Bargassa⁽¹⁰⁸⁾
- C. Beirão Da Cruz E Silva⁽¹⁰⁸⁾
- P. Faccioli⁽¹⁰⁸⁾
- P. G. Ferreira Parracho⁽¹⁰⁸⁾
- M. Gallinaro⁽¹⁰⁸⁾

- F. Nguyen⁽¹⁰⁸⁾
- J. Rodrigues Antunes⁽¹⁰⁸⁾
- J. Seixas⁽¹⁰⁸⁾
- J. Varela⁽¹⁰⁸⁾
- P. Vischia⁽¹⁰⁸⁾
- S. Afanasiiev⁽¹⁰⁹⁾
- P. Bunin⁽¹⁰⁹⁾
- M. Gavrilenko⁽¹⁰⁹⁾
- I. Golutvin⁽¹⁰⁹⁾
- I. Gorbunov⁽¹⁰⁹⁾
- A. Kamenev⁽¹⁰⁹⁾
- V. Karjavin⁽¹⁰⁹⁾
- V. Konoplyanikov⁽¹⁰⁹⁾
- A. Lanev⁽¹⁰⁹⁾
- A. Malakhov⁽¹⁰⁹⁾
- V. Matveev⁽¹⁰⁹⁾
- P. Moisenz⁽¹⁰⁹⁾
- V. Palichik⁽¹⁰⁹⁾
- V. Perelygin⁽¹⁰⁹⁾
- S. Shmatov⁽¹⁰⁹⁾
- N. Skatchkov⁽¹⁰⁹⁾
- V. Smirnov⁽¹⁰⁹⁾
- A. Zarubin⁽¹⁰⁹⁾
- S. Evstyukhin⁽¹¹⁰⁾
- V. Golovtsov⁽¹¹⁰⁾
- Y. Ivanov⁽¹¹⁰⁾
- V. Kim⁽¹¹⁰⁾
- P. Levchenko⁽¹¹⁰⁾
- V. Murzin⁽¹¹⁰⁾
- V. Oreshkin⁽¹¹⁰⁾
- I. Smirnov⁽¹¹⁰⁾
- V. Sulimov⁽¹¹⁰⁾
- L. Uvarov⁽¹¹⁰⁾
- S. Vavilov⁽¹¹⁰⁾
- A. Vorobyev⁽¹¹⁰⁾
- An. Vorobyev⁽¹¹⁰⁾
- Yu. Andreev⁽¹¹¹⁾
- A. Dermenev⁽¹¹¹⁾
- S. Gninenco⁽¹¹¹⁾
- N. Golubev⁽¹¹¹⁾
- M. Kirsanov⁽¹¹¹⁾
- N. Krasnikov⁽¹¹¹⁾
- A. Pashenkov⁽¹¹¹⁾
- D. Tlisov⁽¹¹¹⁾
- A. Toropin⁽¹¹¹⁾
- V. Epshteyn⁽¹¹²⁾
- M. Erofeeva⁽¹¹²⁾
- V. Gavrilov⁽¹¹²⁾
- N. Lychkovskaya⁽¹¹²⁾
- V. Popov⁽¹¹²⁾
- G. Safronov⁽¹¹²⁾
- S. Semenov⁽¹¹²⁾
- A. Spiridonov⁽¹¹²⁾

- V. Stolin⁽¹¹²⁾
- E. Vlasov⁽¹¹²⁾
- A. Zhokin⁽¹¹²⁾
- V. Andreev⁽¹¹³⁾
- M. Azarkin⁽¹¹³⁾
- I. Dremin⁽¹¹³⁾
- M. Kirakosyan⁽¹¹³⁾
- A. Leonidov⁽¹¹³⁾
- G. Mesyats⁽¹¹³⁾
- S. V. Rusakov⁽¹¹³⁾
- A. Vinogradov⁽¹¹³⁾
- A. Belyaev⁽¹¹⁴⁾
- E. Boos⁽¹¹⁴⁾
- M. Dubinin⁽¹¹⁴⁾
- L. Dudko⁽¹¹⁴⁾
- A. Ershov⁽¹¹⁴⁾
- A. Gribushin⁽¹¹⁴⁾
- V. Klyukhin⁽¹¹⁴⁾
- O. Kodolova⁽¹¹⁴⁾
- I. Lokhtin⁽¹¹⁴⁾
- A. Markina⁽¹¹⁴⁾
- S. Obraztsov⁽¹¹⁴⁾
- S. Petrushanko⁽¹¹⁴⁾
- V. Savrin⁽¹¹⁴⁾
- A. Snigirev⁽¹¹⁴⁾
- I. Azhgirey⁽¹¹⁵⁾
- I. Bayshev⁽¹¹⁵⁾
- S. Bitioukov⁽¹¹⁵⁾
- V. Kachanov⁽¹¹⁵⁾
- A. Kalinin⁽¹¹⁵⁾
- D. Konstantinov⁽¹¹⁵⁾
- V. Krychkine⁽¹¹⁵⁾
- V. Petrov⁽¹¹⁵⁾
- R. Ryutin⁽¹¹⁵⁾
- A. Sobol⁽¹¹⁵⁾
- L. Tourtchanovitch⁽¹¹⁵⁾
- S. Troshin⁽¹¹⁵⁾
- N. Tyurin⁽¹¹⁵⁾
- A. Uzunian⁽¹¹⁵⁾
- A. Volkov⁽¹¹⁵⁾
- P. Adzic⁽¹¹⁶⁾
- M. Djordjevic⁽¹¹⁶⁾
- M. Ekmedzic⁽¹¹⁶⁾
- J. Milosevic⁽¹¹⁶⁾
- M. Aguilar-Benitez⁽¹¹⁷⁾
- J. Alcaraz Maestre⁽¹¹⁷⁾
- C. Battilana⁽¹¹⁷⁾
- E. Calvo⁽¹¹⁷⁾
- M. Cerrada⁽¹¹⁷⁾
- M. Chamizo Llatas⁽¹¹⁷⁾
- N. Colino⁽¹¹⁷⁾
- B. De La Cruz⁽¹¹⁷⁾
- A. Delgado Peris⁽¹¹⁷⁾

- D. Domínguez Vázquez⁽¹¹⁷⁾
- C. Fernandez Bedoya⁽¹¹⁷⁾
- J. P. Fernández Ramos⁽¹¹⁷⁾
- A. Ferrando⁽¹¹⁷⁾
- J. Flix⁽¹¹⁷⁾
- M. C. Fouz⁽¹¹⁷⁾
- P. Garcia-Abia⁽¹¹⁷⁾
- O. Gonzalez Lopez⁽¹¹⁷⁾
- S. Goy Lopez⁽¹¹⁷⁾
- J. M. Hernandez⁽¹¹⁷⁾
- M. I. Josa⁽¹¹⁷⁾
- G. Merino⁽¹¹⁷⁾
- E. Navarro De Martino⁽¹¹⁷⁾
- J. Puerta Pelayo⁽¹¹⁷⁾
- A. Quintario Olmeda⁽¹¹⁷⁾
- I. Redondo⁽¹¹⁷⁾
- L. Romero⁽¹¹⁷⁾
- J. Santaolalla⁽¹¹⁷⁾
- M. S. Soares⁽¹¹⁷⁾
- C. Willmott⁽¹¹⁷⁾
- C. Albajar⁽¹¹⁸⁾
- J. F. de Trocóniz⁽¹¹⁸⁾
- H. Brun⁽¹¹⁹⁾
- J. Cuevas⁽¹¹⁹⁾
- J. Fernandez Menendez⁽¹¹⁹⁾
- S. Folgueras⁽¹¹⁹⁾
- I. Gonzalez Caballero⁽¹¹⁹⁾
- L. Lloret Iglesias⁽¹¹⁹⁾
- J. Piedra Gomez⁽¹¹⁹⁾
- J. A. Brochero Cifuentes⁽¹²⁰⁾
- I. J. Cabrillo⁽¹²⁰⁾
- A. Calderon⁽¹²⁰⁾
- S. H. Chuang⁽¹²⁰⁾
- J. Duarte Campderros⁽¹²⁰⁾
- M. Fernandez⁽¹²⁰⁾
- G. Gomez⁽¹²⁰⁾
- J. Gonzalez Sanchez⁽¹²⁰⁾
- A. Graziano⁽¹²⁰⁾
- C. Jordà⁽¹²⁰⁾
- A. Lopez Virto⁽¹²⁰⁾
- J. Marco⁽¹²⁰⁾
- R. Marco⁽¹²⁰⁾
- C. Martinez Rivero⁽¹²⁰⁾
- F. Matorras⁽¹²⁰⁾
- F. J. Munoz Sanchez⁽¹²⁰⁾
- T. Rodrigo⁽¹²⁰⁾
- A. Y. Rodríguez-Marrero⁽¹²⁰⁾
- A. Ruiz-Jimeno⁽¹²⁰⁾
- L. Scodellaro⁽¹²⁰⁾
- I. Vila⁽¹²⁰⁾
- R. Vilar Cortabitarte⁽¹²⁰⁾
- D. Abbaneo⁽¹²¹⁾
- E. Auffray⁽¹²¹⁾

- G. Auzinger⁽¹²¹⁾
- M. Bachtis⁽¹²¹⁾
- P. Baillon⁽¹²¹⁾
- A. H. Ball⁽¹²¹⁾
- D. Barney⁽¹²¹⁾
- J. Bendavid⁽¹²¹⁾
- J. F. Benitez⁽¹²¹⁾
- C. Bernet⁽¹²¹⁾
- G. Bianchi⁽¹²¹⁾
- P. Bloch⁽¹²¹⁾
- A. Bocci⁽¹²¹⁾
- A. Bonato⁽¹²¹⁾
- O. Bondu⁽¹²¹⁾
- C. Botta⁽¹²¹⁾
- H. Breuker⁽¹²¹⁾
- T. Camporesi⁽¹²¹⁾
- G. Cerminara⁽¹²¹⁾
- T. Christiansen⁽¹²¹⁾
- J. A. Coarasa Perez⁽¹²¹⁾
- S. Colafranceschi⁽¹²¹⁾
- M. D'Alfonso⁽¹²¹⁾
- D. d'Enterria⁽¹²¹⁾
- A. Dabrowski⁽¹²¹⁾
- A. David⁽¹²¹⁾
- F. De Guio⁽¹²¹⁾
- A. De Roeck⁽¹²¹⁾
- S. De Visscher⁽¹²¹⁾
- S. Di Guida⁽¹²¹⁾
- M. Dobson⁽¹²¹⁾
- N. Dupont-Sagorin⁽¹²¹⁾
- A. Elliott-Peisert⁽¹²¹⁾
- J. Eugster⁽¹²¹⁾
- G. Franzoni⁽¹²¹⁾
- W. Funk⁽¹²¹⁾
- G. Georgiou⁽¹²¹⁾
- M. Giffels⁽¹²¹⁾
- D. Gigi⁽¹²¹⁾
- K. Gill⁽¹²¹⁾
- D. Giordano⁽¹²¹⁾
- M. Girone⁽¹²¹⁾
- M. Giunta⁽¹²¹⁾
- F. Glege⁽¹²¹⁾
- R. Gomez-Reino Garrido⁽¹²¹⁾
- S. Gowdy⁽¹²¹⁾
- R. Guida⁽¹²¹⁾
- J. Hammer⁽¹²¹⁾
- M. Hansen⁽¹²¹⁾
- P. Harris⁽¹²¹⁾
- C. Hartl⁽¹²¹⁾
- A. Hinzmann⁽¹²¹⁾
- V. Innocente⁽¹²¹⁾
- P. Janot⁽¹²¹⁾
- E. Karavakis⁽¹²¹⁾

- K. Kousouris⁽¹²¹⁾
- K. Krajezar⁽¹²¹⁾
- P. Lecoq⁽¹²¹⁾
- Y.-J. Lee⁽¹²¹⁾
- C. Lourenço⁽¹²¹⁾
- N. Magini⁽¹²¹⁾
- L. Malgeri⁽¹²¹⁾
- M. Mannelli⁽¹²¹⁾
- L. Masetti⁽¹²¹⁾
- F. Meijers⁽¹²¹⁾
- S. Mersi⁽¹²¹⁾
- E. Meschi⁽¹²¹⁾
- R. Moser⁽¹²¹⁾
- M. Mulders⁽¹²¹⁾
- P. Musella⁽¹²¹⁾
- E. Nesvold⁽¹²¹⁾
- L. Orsini⁽¹²¹⁾
- E. Palencia Cortezon⁽¹²¹⁾
- E. Perez⁽¹²¹⁾
- L. Perrozzi⁽¹²¹⁾
- A. Petrilli⁽¹²¹⁾
- A. Pfeiffer⁽¹²¹⁾
- M. Pierini⁽¹²¹⁾
- M. Pimiä⁽¹²¹⁾
- D. Piparo⁽¹²¹⁾
- M. Plagge⁽¹²¹⁾
- L. Quertenmont⁽¹²¹⁾
- A. Racz⁽¹²¹⁾
- W. Reece⁽¹²¹⁾
- G. Rolandi⁽¹²¹⁾
- M. Rovere⁽¹²¹⁾
- H. Sakulin⁽¹²¹⁾
- F. Santanastasio⁽¹²¹⁾
- C. Schäfer⁽¹²¹⁾
- C. Schwick⁽¹²¹⁾
- S. Sekmen⁽¹²¹⁾
- A. Sharma⁽¹²¹⁾
- P. Siegrist⁽¹²¹⁾
- P. Silva⁽¹²¹⁾
- M. Simon⁽¹²¹⁾
- P. Sphicas⁽¹²¹⁾
- D. Spiga⁽¹²¹⁾
- B. Stieger⁽¹²¹⁾
- M. Stoye⁽¹²¹⁾
- A. Tsirou⁽¹²¹⁾
- G. I. Veres⁽¹²¹⁾
- J. R. Vlimant⁽¹²¹⁾
- H. K. Wöhri⁽¹²¹⁾
- S. D. Worm⁽¹²¹⁾
- W. D. Zeuner⁽¹²¹⁾
- W. Bertl⁽¹²²⁾
- K. Deiters⁽¹²²⁾
- W. Erdmann⁽¹²²⁾

- K. Gabathuler⁽¹²²⁾
- R. Horisberger⁽¹²²⁾
- Q. Ingram⁽¹²²⁾
- H. C. Kaestli⁽¹²²⁾
- S. König⁽¹²²⁾
- D. Kotlinski⁽¹²²⁾
- U. Langenegger⁽¹²²⁾
- D. Renker⁽¹²²⁾
- T. Rohe⁽¹²²⁾
- F. Bachmair⁽¹²³⁾
- L. Bäni⁽¹²³⁾
- L. Bianchini⁽¹²³⁾
- P. Bortignon⁽¹²³⁾
- M. A. Buchmann⁽¹²³⁾
- B. Casal⁽¹²³⁾
- N. Chanon⁽¹²³⁾
- A. Deisher⁽¹²³⁾
- G. Dissertori⁽¹²³⁾
- M. Dittmar⁽¹²³⁾
- M. Donegà⁽¹²³⁾
- M. Dünser⁽¹²³⁾
- P. Eller⁽¹²³⁾
- K. Freudenreich⁽¹²³⁾
- C. Grab⁽¹²³⁾
- D. Hits⁽¹²³⁾
- P. Lecomte⁽¹²³⁾
- W. Lustermann⁽¹²³⁾
- B. Mangano⁽¹²³⁾
- A. C. Marini⁽¹²³⁾
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- D. Meister⁽¹²³⁾
- N. Mohr⁽¹²³⁾
- F. Moortgat⁽¹²³⁾
- C. Nägeli⁽¹²³⁾
- P. Nef⁽¹²³⁾
- F. Nessi-Tedaldi⁽¹²³⁾
- F. Pandolfi⁽¹²³⁾
- L. Pape⁽¹²³⁾
- F. Pauss⁽¹²³⁾
- M. Peruzzi⁽¹²³⁾
- M. Quittnat⁽¹²³⁾
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- M. Rossini⁽¹²³⁾
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- A. K. Sanchez⁽¹²³⁾
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- A. Thea⁽¹²³⁾
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- D. Treille⁽¹²³⁾
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- Y. Yang⁽¹²⁴⁾
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- K. H. Chen⁽¹²⁵⁾
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- C. M. Kuo⁽¹²⁵⁾
- S. W. Li⁽¹²⁵⁾
- W. Lin⁽¹²⁵⁾
- Y. J. Lu⁽¹²⁵⁾
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- S. S. Yu⁽¹²⁵⁾
- P. Bartalini⁽¹²⁶⁾
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- X. Shi⁽¹²⁶⁾
- J. G. Shiu⁽¹²⁶⁾
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- M. Wang⁽¹²⁶⁾
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- N. Suwonjandee⁽¹²⁷⁾
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- M. N. Bakirci⁽¹²⁸⁾
- S. Cerci⁽¹²⁸⁾
- C. Dozen⁽¹²⁸⁾
- I. Dumanoglu⁽¹²⁸⁾
- E. Eskut⁽¹²⁸⁾
- S. Girgis⁽¹²⁸⁾
- G. Gokbulut⁽¹²⁸⁾
- E. Gurpinar⁽¹²⁸⁾
- I. Hos⁽¹²⁸⁾
- E. E. Kangal⁽¹²⁸⁾

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- S. Ozturk⁽¹²⁸⁾
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- S. Bilmis⁽¹²⁹⁾
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- H. Gamsizkan⁽¹²⁹⁾
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- G. Karapinar⁽¹²⁹⁾
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- 148. University of Colorado at Boulder, Boulder, USA
- 149. Cornell University, Ithaca, USA
- 150. Fairfield University, Fairfield, USA
- 151. Fermi National Accelerator Laboratory, Batavia, USA

- 152. University of Florida, Gainesville, USA
- 153. Florida International University, Miami, USA
- 154. Florida State University, Tallahassee, USA
- 155. Florida Institute of Technology, Melbourne, USA
- 156. University of Illinois at Chicago (UIC), Chicago, USA
- 157. The University of Iowa, Iowa City, USA
- 158. Johns Hopkins University, Baltimore, USA
- 159. The University of Kansas, Lawrence, USA
- 160. Kansas State University, Manhattan, USA
- 161. Lawrence Livermore National Laboratory, Livermore, USA
- 162. University of Maryland, College Park, USA
- 163. Massachusetts Institute of Technology, Cambridge, USA
- 164. University of Minnesota, Minneapolis, USA
- 165. University of Mississippi, Oxford, USA
- 166. University of Nebraska-Lincoln, Lincoln, USA
- 167. State University of New York at Buffalo, Buffalo, USA
- 168. Northeastern University, Boston, USA
- 169. Northwestern University, Evanston, USA
- 170. University of Notre Dame, Notre Dame, USA
- 171. The Ohio State University, Columbus, USA
- 172. Princeton University, Princeton, USA
- 173. University of Puerto Rico, Mayaguez, USA
- 174. Purdue University, West Lafayette, USA
- 175. Purdue University Calumet, Hammond, USA
- 176. Rice University, Houston, USA
- 177. University of Rochester, Rochester, USA
- 178. The Rockefeller University, New York, USA
- 179. Rutgers, The State University of New Jersey, Piscataway, USA
- 180. University of Tennessee, Knoxville, USA
- 181. Texas A&M University, College Station, USA
- 182. Texas Tech University, Lubbock, USA
- 183. Vanderbilt University, Nashville, USA
- 184. University of Virginia, Charlottesville, USA
- 185. Wayne State University, Detroit, USA
- 186. University of Wisconsin, Madison, USA
- 1. CERN, Geneva, Switzerland

Support

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