

Search for $W' \rightarrow tb$ resonances with left- and right-handed couplings to fermions

DO Collaboration

V.M. Abazov^{ai}, B. Abbott^{bt}, B.S. Acharya^{ac}, M. Adams^{av}, T. Adams^{at}, G.D. Alexeev^{ai}, G. Alkhazov^{ac}, A. Alton^{bh,1}, G. Alverson^{bg}, G.A. Alves^b, L.S. Ancu^{ah}, M. Aoki^{au}, M. Arov^{be}, A. Askew^{at}, B. Åsman^{an}, O. Atramentov^{bl}, C. Avila^h, J. BackusMayes^{ca}, F. Badaud^m, L. Bagby^{au}, B. Baldin^{au}, D.V. Bandurin^{at}, S. Banerjee^{ac}, E. Barberis^{bg}, P. Baringer^{bc}, J. Barreto^c, J.F. Bartlett^{au}, U. Bassler^r, V. Bazterra^{av}, S. Beale^f, A. Bean^{bc}, M. Begalli^c, M. Begel^{br}, C. Belanger-Champagne^{an}, L. Bellantoni^{au}, S.B. Beri^{aa}, G. Bernardi^q, R. Bernhard^v, I. Bertram^{ao}, M. Besançon^r, R. Beuselinck^{ap}, V.A. Bezzubov^{al}, P.C. Bhat^{au}, V. Bhatnagar^{aa}, G. Blazey^{aw}, S. Blessing^{at}, K. Bloom^{bk}, A. Boehnlein^{au}, D. Boline^{bq}, T.A. Bolton^{bd}, E.E. Boos^{ak}, G. Borissov^{ao}, T. Bose^{bf}, A. Brandt^{bw}, O. Brandt^w, R. Brock^{bi}, G. Brooijmans^{bo}, A. Bross^{au}, D. Brown^q, J. Brown^q, X.B. Bu^{au}, M. Buehler^{bz}, V. Buescher^x, V. Bunichev^{ak}, S. Burdin^{ao,2}, T.H. Burnett^{ca}, C.P. Buszello^{an}, B. Calpas^o, E. Camacho-Pérez^{af}, M.A. Carrasco-Lizarraga^{bc}, B.C.K. Casey^{au}, H. Castilla-Valdez^{af}, S. Chakrabarti^{bq}, D. Chakraborty^{aw}, K.M. Chan^{ba}, A. Chandra^{by}, G. Chen^{bc}, S. Chevalier-Théry^r, D.K. Cho^{bv}, S.W. Cho^{ae}, S. Choi^{ae}, B. Choudhary^{ab}, T. Christoudias^{ap}, S. Cihangir^{au}, D. Claes^{bk}, J. Clutter^{bc}, M. Cooke^{au}, W.E. Cooper^{au}, M. Corcoran^{by}, F. Couderc^r, M.-C. Cousinou^o, A. Croc^r, D. Cutts^{bv}, A. Das^{ar}, G. Davies^{ap}, K. De^{bw}, S.J. de Jong^{ah}, E. De La Cruz-Burelo^{af}, F. Déliot^r, M. Demarteau^{au}, R. Demina^{bp}, D. Denisov^{au}, S.P. Denisov^{al}, S. Desai^{au}, K. DeVaughan^{bk}, H.T. Diehl^{au}, M. Diesburg^{au}, A. Dominguez^{bk}, T. Dorland^{ca}, A. Dubey^{ab}, L.V. Dudko^{ak}, D. Duggan^{bl}, A. Duperrin^o, S. Dutt^{aa}, A. Dyshkant^{aw}, M. Eads^{bk}, D. Edmunds^{bi}, J. Ellison^{as}, V.D. Elvira^{au}, Y. Enari^q, H. Evans^{ay}, A. Evdokimov^{br}, V.N. Evdokimov^{al}, G. Facini^{bg}, T. Ferbel^{bp}, F. Fiedler^x, F. Filthaut^{ah}, W. Fisher^{bi}, H.E. Fisk^{au}, M. Fortner^{aw}, H. Fox^{ao}, S. Fuess^{au}, T. Gadfort^{br}, A. Garcia-Bellido^{bp}, V. Gavrilov^{aj}, P. Gay^m, W. Geist^s, W. Geng^{o,bi}, D. Gerbaudo^{bm}, C.E. Gerber^{av}, Y. Gershtein^{bl}, G. Ginther^{au,bp}, G. Golovanov^{ai}, A. Goussiou^{ca}, P.D. Grannis^{bq}, S. Greder^s, H. Greenlee^{au}, Z.D. Greenwood^{be}, E.M. Gregores^d, G. Grenier^t, Ph. Gris^m, J.-F. Grivaz^p, A. Grohsjean^r, S. Grünendahl^{au}, M.W. Grünewald^{ad}, F. Guo^{bq}, G. Gutierrez^{au}, P. Gutierrez^{bt}, A. Haas^{bo,3}, S. Hagopian^{at}, J. Haley^{bg}, L. Han^g, K. Harder^{aq}, A. Harel^{bp}, J.M. Hauptman^{bb}, J. Hays^{ap}, T. Head^{aq}, T. Hebbeker^u, D. Hedin^{aw}, H. Hegab^{bu}, A.P. Heinson^{as}, U. Heintz^{bv}, C. Hensel^w, I. Heredia-De La Cruz^{af}, K. Herner^{bh}, M.D. Hildreth^{ba}, R. Hirosky^{bz}, T. Hoang^{at}, J.D. Hobbs^{bq}, B. Hoeneisen^l, M. Hohlfeld^x, S. Hossain^{bt}, Z. Hubacek^{j,r}, N. Huske^q, V. Hynek^j, I. Iashvili^{bn}, R. Illingworth^{au}, A.S. Ito^{au}, S. Jabeen^{bv}, M. Jaffré^p, S. Jain^{bn}, D. Jamin^o, R. Jesik^{ap}, K. Johns^{ar}, M. Johnson^{au}, D. Johnston^{bk}, A. Jonckheere^{au}, P. Jonsson^{ap}, J. Joshi^{aa}, A. Juste^{au,4}, K. Kaadze^{bd}, E. Kajfasz^o, D. Karmanov^{ak}, P.A. Kasper^{au}, I. Katsanos^{bk}, R. Kehoe^{bx}, S. Kermiche^o, N. Khalatyan^{au}, A. Khanov^{bu}, A. Kharchilava^{bn}, Y.N. Kharzhev^{ai}, D. Khatidze^{bv}, M.H. Kirby^{ax}, J.M. Kohli^{aa}, A.V. Kozelov^{al}, J. Kraus^{bi}, A. Kumar^{bn}, A. Kupco^k, T. Kurča^t, V.A. Kuzmin^{ak}, J. Kvitaⁱ, S. Lammers^{ay}, G. Landsberg^{bv}, P. Lebrun^t, H.S. Lee^{ae}, S.W. Lee^{bb}, W.M. Lee^{au}, J. Lellouch^q, L. Li^{as}, Q.Z. Li^{au}, S.M. Lietti^e, J.K. Lim^{ae}, D. Lincoln^{au}, J. Linnemann^{bi}, V.V. Lipaev^{al}, R. Lipton^{au}, Y. Liu^g, Z. Liu^f, A. Lobodenko^{am}, M. Lokajicek^k, P. Love^{ao}, H.J. Lubatti^{ca}, R. Luna-Garcia^{af,5}, A.L. Lyon^{au}, A.K.A. Maciel^b, D. Mackin^{by}, R. Madar^r, R. Magaña-Villalba^{af}, S. Malik^{bk}, V.L. Malyshev^{ai}, Y. Maravin^{bd}, J. Martínez-Ortega^{af}, R. McCarthy^{bq}, C.L. McGivern^{bc}, M.M. Meijer^{ah}, A. Melnitchouk^{bj}, D. Menezes^{aw}, P.G. Mercadante^d, M. Merkin^{ak}, A. Meyer^u, J. Meyer^w, F. Miconi^s, N.K. Mondal^{ac}, G.S. Muanza^o, M. Mulhearn^{bz}, E. Nagy^o, M. Naimuddin^{ab}, M. Narain^{bv}, R. Nayyar^{ab}, H.A. Neal^{bh}, J.P. Negret^h, P. Neustroev^{am}, S.F. Novaes^e,

T. Nunnemann^y, G. Odrant^{am}, J. Orduna^{af}, N. Osman^{ap}, J. Osta^{ba}, G.J. Otero y Garzón^a, M. Owen^{aq}, M. Padilla^{as}, M. Pangilinan^{bv}, N. Parashar^{az}, V. Parihar^{bv}, S.K. Park^{ae}, J. Parsons^{bo}, R. Partridge^{bv,3}, N. Parua^{ay}, A. Patwa^{br}, B. Penning^{au}, M. Perfilov^{ak}, K. Peters^{aq}, Y. Peters^{aq}, G. Petrillo^{bp}, P. Pétroff^p, R. Piegaia^a, J. Piper^{bi}, M.-A. Pleier^{br}, P.L.M. Podesta-Lerma^{af,6}, V.M. Podstavkov^{au}, M.-E. Pol^b, P. Polozov^{aj}, A.V. Popov^{al}, M. Prewitt^{by}, D. Price^{ay}, S. Protopopescu^{br}, J. Qian^{bh}, A. Quadt^w, B. Quinn^{bj}, M.S. Rangel^b, K. Ranjan^{ab}, P.N. Ratoff^{ao}, I. Razumov^{al}, P. Renkel^{bx}, M. Rijssenbeek^{bq}, I. Ripp-Baudot^s, F. Rizatdinova^{bu}, M. Rominsky^{au}, C. Royon^r, P. Rubinov^{au}, R. Ruchti^{ba}, G. Safronov^{aj}, G. Sajotⁿ, A. Sánchez-Hernández^{af}, M.P. Sanders^y, B. Sanghi^{au}, A.S. Santos^e, G. Savage^{au}, L. Sawyer^{be}, T. Scanlon^{ap}, R.D. Schamberger^{bq}, Y. Scheglov^{am}, H. Schellman^{ax}, T. Schliephake^z, S. Schlobohm^{ca}, C. Schwanenberger^{aq}, R. Schwienhorst^{bi}, J. Sekaric^{bc}, H. Severini^{bt}, E. Shabalina^w, V. Shary^r, A.A. Shchukin^{al}, R.K. Shivpuri^{ab}, V. Simak^j, T. Sinthuprasith^{bv}, V. Sirotenko^{au}, P. Skubic^{bt}, P. Slattery^{bp}, D. Smirnov^{ba}, K.J. Smith^{bn}, G.R. Snow^{bk}, J. Snow^{bs}, S. Snyder^{br}, S. Söldner-Rembold^{aq}, L. Sonnenschein^u, A. Sopczak^{ao}, M. Sosebee^{bw}, K. Soustruznikⁱ, B. Spurlock^{bw}, J. Starkⁿ, V. Stolin^{aj}, D.A. Stoyanova^{al}, M. Strauss^{bt}, D. Strom^{av}, L. Stutte^{au}, L. Suter^{aq}, P. Svoisky^{bt}, M. Takahashi^{aq}, A. Tanasijczuk^a, W. Taylor^f, M. Titov^r, V.V. Tokmenin^{ai}, Y.-T. Tsai^{bp}, D. Tsybychev^{bq}, B. Tuchming^r, C. Tully^{bm}, P.M. Tuts^{bo}, L. Uvarov^{am}, S. Uvarov^{am}, S. Uzunyan^{aw}, R. Van Kooten^{ay}, W.M. van Leeuwen^{ag}, N. Varelas^{av}, E.W. Varnes^{ar}, I.A. Vasilyev^{al}, P. Verdier^t, L.S. Vertogradov^{ai}, M. Verzocchi^{au}, M. Vesterinen^{aq}, D. Vilanova^r, P. Vint^{ap}, P. Vokac^j, H.D. Wahl^{at}, M.H.L.S. Wang^{bp}, J. Warchol^{ba}, G. Watts^{ca}, M. Wayne^{ba}, M. Weber^{au,7}, L. Welty-Rieger^{ax}, A. White^{bw}, D. Wicke^z, M.R.J. Williams^{ao}, G.W. Wilson^{bc}, S.J. Wimpenny^{as}, M. Wobisch^{be}, D.R. Wood^{bg}, T.R. Wyatt^{aq}, Y. Xie^{au}, C. Xu^{bh}, S. Yacoob^{ax}, R. Yamada^{au}, W.-C. Yang^{aq}, T. Yasuda^{au}, Y.A. Yatsunenkov^{ai}, Z. Ye^{au}, H. Yin^{au}, K. Yip^{br}, S.W. Youn^{au}, J. Yu^{bw}, S. Zelitch^{bz}, T. Zhao^{ca}, B. Zhou^{bh}, J. Zhu^{bh}, M. Zielinski^{bp}, D. Zieminska^{ay}, L. Zivkovic^{bv}

^a Universidad de Buenos Aires, Buenos Aires, Argentina

^b LAFEX, Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil

^c Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil

^d Universidade Federal do ABC, Santo André, Brazil

^e Instituto de Física Teórica, Universidade Estadual Paulista, São Paulo, Brazil

^f Simon Fraser University, Vancouver, British Columbia, and York University, Toronto, Ontario, Canada

^g University of Science and Technology of China, Hefei, People's Republic of China

^h Universidad de los Andes, Bogotá, Colombia

ⁱ Charles University, Faculty of Mathematics and Physics, Center for Particle Physics, Prague, Czech Republic

^j Czech Technical University in Prague, Prague, Czech Republic

^k Center for Particle Physics, Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic

^l Universidad San Francisco de Quito, Quito, Ecuador

^m LPC, Université Blaise Pascal, CNRS/IN2P3, Clermont, France

ⁿ LPSC, Université Joseph Fourier Grenoble 1, CNRS/IN2P3, Institut National Polytechnique de Grenoble, Grenoble, France

^o CPPM, Aix-Marseille Université, CNRS/IN2P3, Marseille, France

^p LAL, Université Paris-Sud, CNRS/IN2P3, Orsay, France

^q LPNHE, Universités Paris VI and VII, CNRS/IN2P3, Paris, France

^r CEA, Irfu, SPP, Saclay, France

^s IPHC, Université de Strasbourg, CNRS/IN2P3, Strasbourg, France

^t IPNL, Université Lyon 1, CNRS/IN2P3, Villeurbanne, and Université de Lyon, Lyon, France

^u III. Physikalisches Institut A, RWTH Aachen University, Aachen, Germany

^v Physikalisches Institut, Universität Freiburg, Freiburg, Germany

^w II. Physikalisches Institut, Georg-August-Universität Göttingen, Göttingen, Germany

^x Institut für Physik, Universität Mainz, Mainz, Germany

^y Ludwig-Maximilians-Universität München, München, Germany

^z Fachbereich Physik, Bergische Universität Wuppertal, Wuppertal, Germany

^{aa} Panjab University, Chandigarh, India

^{ab} Delhi University, Delhi, India

^{ac} Tata Institute of Fundamental Research, Mumbai, India

^{ad} University College Dublin, Dublin, Ireland

^{ae} Korea Detector Laboratory, Korea University, Seoul, Republic of Korea

^{af} CINVESTAV, Mexico City, Mexico

^{ag} FOM – Institute NIKHEF and University of Amsterdam/NIKHEF, Amsterdam, The Netherlands

^{ah} Radboud University Nijmegen/NIKHEF, Nijmegen, The Netherlands

^{ai} Joint Institute for Nuclear Research, Dubna, Russia

^{aj} Institute for Theoretical and Experimental Physics, Moscow, Russia

^{ak} Moscow State University, Moscow, Russia

^{al} Institute for High Energy Physics, Protvino, Russia

^{am} Petersburg Nuclear Physics Institute, St. Petersburg, Russia

^{an} Stockholm University, Stockholm and Uppsala University, Uppsala, Sweden

^{ao} Lancaster University, Lancaster LA1 4YB, United Kingdom

^{ap} Imperial College London, London SW7 2AZ, United Kingdom

^{aq} The University of Manchester, Manchester M13 9PL, United Kingdom

^{ar} University of Arizona, Tucson, AZ 85721, USA

^{as} University of California Riverside, Riverside, CA 92521, USA

Download English Version:

<https://daneshyari.com/en/article/10725353>

Download Persian Version:

<https://daneshyari.com/article/10725353>

[Daneshyari.com](https://daneshyari.com)