

CMS Collaboration

Yerevan Physics Institute, Yerevan, Armenia

S. Chatrchyan, G. Hmayakyan, V. Khachatryan, A.M. Sirunyan

Institut für Hochenergiephysik der OeAW, Wien, Austria

W. Adam, T. Bauer, T. Bergauer, H. Bergauer, M. Dragicevic, J. Erö, M. Friedl, R. Frühwirth, V.M. Ghete, P. Glaser, C. Hartl, N. Hoermann, J. Hrubec, S. Hänsel, M. Jeitler, K. Kastner, M. Krammer, I. Magrans de Abril, M. Markytan, I. Mikulec, B. Neuherz, T. Nöbauer, M. Oberegger, M. Padrtá, M. Pernicka, P. Porth, H. Rohringer, S. Schmid, T. Schreiner, R. Stark, H. Steininger, J. Strauss, A. Taurok, D. Uhl, W. Waltenberger, G. Walzel, E. Widl, C.-E. Wulz

Byelorussian State University, Minsk, Belarus

V. Petrov, V. Prosolovich

National Centre for Particle and High Energy Physics, Minsk, Belarus

V. Chekhovsky, O. Dvornikov, I. Emelianchik, A. Litomin, V. Makarenko, I. Marfin, V. Mossolov, N. Shumeiko, A. Solin, R. Stefanovitch, J. Suarez Gonzalez, A. Tikhonov

Research Institute for Nuclear Problems, Minsk, Belarus

A. Fedorov, M. Korzhik, O. Mishevitch, R. Zuyeuski

Universiteit Antwerpen, Antwerpen, Belgium

W. Beaumont, M. Cardaci, E. De Langhe, E.A. De Wolf, E. Delmeire, S. Ochesanu, M. Tasevsky, P. Van Mechelen

Vrije Universiteit Brussel, Brussel, Belgium

J. D'Hondt, S. De Weirdt, O. Devroede, R. Goorens, S. Hannaert, J. Heyninck, J. Maes, M.U. Mozer, S. Tavernier, W. Van Doninck,¹ L. Van Lancker, P. Van Mulders, I. Villella, C. Wastiels, C. Yu

Université Libre de Bruxelles, Bruxelles, Belgium

O. Bouhali, O. Charaf, B. Clerbaux, P. De Harenne, G. De Lentdecker, J.P. Dewulf, S. Elgammal, R. Gindroz, G.H. Hammad, T. Mahmoud, L. Neukermans, M. Pins, R. Pins, S. Rugovac, J. Stefanescu, V. Sundararajan, C. Vander Velde, P. Vanlaer, J. Wickens

Ghent University, Ghent, Belgium

M. Tytgat

Université Catholique de Louvain, Louvain-la-Neuve, Belgium

S. Assouak, J.L. Bonnet, G. Bruno, J. Caudron, B. De Callatay, J. De Favereau De Jeneret, S. De Visscher, P. Demin, D. Favart, C. Felix, B. Florins, E. Forton, A. Giannanco, G. Grégoire, M. Jonckman, D. Kcira, T. Keutgen, V. Lemaitre, D. Michotte, O. Militaru, S. Ovyn, T. Pierzchala, K. Piotrkowski, V. Roberfroid, X. Rouby, N. Schul, O. Van der Aa

Université de Mons-Hainaut, Mons, Belgium

N. Belyi, E. Daubie, P. Herquet

Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro, Brazil

G. Alves, M.E. Pol, M.H.G. Souza

**Instituto de Fisica - Universidade Federal do Rio de Janeiro,
Rio de Janeiro, Brazil**

M. Vaz

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

D. De Jesus Damiao, V. Oguri, A. Santoro, A. Sznajder

**Instituto de Fisica Teorica-Universidade Estadual Paulista,
Sao Paulo, Brazil**E. De Moraes Gregores,² R.L. Iope, S.F. Novaes, T. Tomei**Institute for Nuclear Research and Nuclear Energy, Sofia, Bulgaria**

T. Anguelov, G. Antchev, I. Atanasov, J. Damgov, N. Darmenov,¹ L. Dimitrov, V. Genchev,¹ P. Iaydjiev, A. Marinov, S. Piperov, S. Stoykova, G. Sultanov, R. Trayanov, I. Vankov

University of Sofia, Sofia, Bulgaria

C. Cheshkov, A. Dimitrov, M. Dyulendarova, I. Glushkov, V. Kozuharov, L. Litov, M. Makariev, E. Marinova, S. Markov, M. Mateev, I. Nasteva, B. Pavlov, P. Petev, P. Petkov, V. Spassov, Z. Toteva,¹ V. Velev, V. Verguilov

Institute of High Energy Physics, Beijing, China

J.G. Bian, G.M. Chen, H.S. Chen, M. Chen, C.H. Jiang, B. Liu, X.Y. Shen, H.S. Sun, J. Tao, J. Wang, M. Yang, Z. Zhang, W.R. Zhao, H.L. Zhuang

Peking University, Beijing, China

Y. Ban, J. Cai, Y.C. Ge, S. Liu, H.T. Liu, L. Liu, S.J. Qian, Q. Wang, Z.H. Xue, Z.C. Yang, Y.L. Ye, J. Ying

Shanghai Institute of Ceramics, Shanghai, China (Associated Institute)

P.J. Li, J. Liao, Z.L. Xue, D.S. Yan, H. Yuan

Universidad de Los Andes, Bogota, Colombia

C.A. Carrillo Montoya, J.C. Sanabria

Technical University of Split, Split, Croatia

N. Godinovic, I. Puljak, I. Soric

University of Split, Split, Croatia

Z. Antunovic, M. Dzelalija, K. Marasovic

Institute Rudjer Boskovic, Zagreb, Croatia

V. Brigljevic, K. Kadija, S. Morovic

University of Cyprus, Nicosia, Cyprus

R. Fereos, C. Nicolaou, A. Papadakis, F. Ptochos, P.A. Razis, D. Tsiakkouri, Z. Zinonos

National Institute of Chemical Physics and Biophysics, Tallinn, Estonia

A. Hektor, M. Kadastik, K. Kannike, E. Lippmaa, M. Müntel, M. Raidal, L. Rebane

**Laboratory of Advanced Energy Systems,
Helsinki University of Technology, Espoo, Finland**

P.A. Aarnio

Helsinki Institute of Physics, Helsinki, FinlandE. Anttila, K. Banzuzi, P. Bulteau, S. Czellar, N. Eiden, C. Eklund, P. Engstrom,¹ A. Heikkinen, A. Honkanen, J. Hätkönen, V. Karimäki, H.M. Katajisto, R. Kinnunen, J. Klem, J. Kortesmaa,¹ M. Kotamäki, A. Kuronen,¹ T. Lampén, K. Lassila-Perini, V. Lefébure, S. Lehti, T. Lindén, P.R. Luukka, S. Michal,¹ F. Moura Brigido, T. Mäenpää, T. Nyman, J. Nystén, E. Pietarinen, K. Skog, K. Tammi, E. Tuominen, J. Tuominiemi, D. Ungaro, T.P. Vanhala, L. Wendland, C. Williams**Lappeenranta University of Technology, Lappeenranta, Finland**M. Iskanius, A. Korpela, G. Polese,¹ T. Tuuva**Laboratoire d'Annecy-le-Vieux de Physique des Particules,****IN2P3-CNRS, Annecy-le-Vieux, France**

G. Bassompierre, A. Bazan, P.Y. David, J. Ditta, G. Drobychev, N. Fouque, J.P. Guillaud, V. Hermel, A. Karneyeu, T. Le Flour, S. Lieunard, M. Maire, P. Mendiburu, P. Nedelec, J.P. Peigneux, M. Schneegans, D. Sillou, J.P. Vialle

DSM/DAPNIA, CEA/Saclay, Gif-sur-Yvette, France

M. Anfreville, J.P. Bard, P. Besson,* E. Bougamont, M. Boyer, P. Bredy, R. Chipaux, M. Dejardin, D. Denegri, J. Descamps, B. Fabbro, J.L. Faure, S. Ganjour, F.X. Gentit, A. Givernaud, P. Gras, G. Hamel de Monchenault, P. Jarry, C. Jeanney, F. Kircher, M.C. Lemaire, Y. Lemoigne, B. Levesy,¹ E. Locci, J.P. Lottin, I. Mandjavidze, M. Mur, J.P. Pansart, A. Payn, J. Rander, J.M. Reymond, J. Rolquin, F. Rondeaux, A. Rosowsky, J.Y.A. Rousse, Z.H. Sun, J. Tartas, A. Van Lysebetten, P. Venault, P. Verrecchia

Laboratoire Leprince-Ringuet, Ecole Polytechnique,**IN2P3-CNRS, Palaiseau, France**

M. Anduze, J. Badier, S. Baffioni, M. Bercher, C. Bernet, U. Berthon, J. Bourotte, A. Busata, P. Busson, M. Cerutti, D. Chamont, C. Charlot, C. Collard,³ A. Debraine, D. Decotigny, L. Dobrzynski, O. Ferreira, Y. Geerebaert, J. Gilly, C. Gregory,* L. Guevara Riveros, M. Haguenauer, A. Karar, B. Koblitz, D. Lecouturier, A. Mathieu, G. Milleret, P. Miné, P. Paganini, P. Poilleux, N. Pukhaeva, N. Regnault, T. Romanteau, I. Semeniouk, Y. Sirois, C. Thiebaut, J.C. Vanel, A. Zabi⁴

Institut Pluridisciplinaire Hubert Curien,**IN2P3-CNRS, Université Louis Pasteur Strasbourg, France, and****Université de Haute Alsace Mulhouse, Strasbourg, France**

J.L. Agram,⁵ A. Albert,⁵ L. Anckenmann, J. Andrea, F. Anstotz,⁶ A.M. Bergdolt, J.D. Berst, R. Blaes,⁵ D. Bloch, J.M. Brom, J. Cailleret, F. Charles,* E. Christophe, G. Claus, J. Coffin, C. Colledani, J. Croix, E. Dangelser, N. Dick, F. Didierjean, F. Drouhin^{1,5}, W. Dulinski, J.P. Ernenwein,⁵ R. Fang, J.C. Fontaine,⁵ G. Gaudiot, W. Geist, D. Gelé, T. Goeltzenlichter, U. Goerlach,⁶ P. Graehling, L. Gross, C. Guo Hu, J.M. Helleboid, T. Henkes, M. Hoffer, C. Hoffmann, J. Hosselet, L. Houchu, Y. Hu,⁶ D. Huss,⁶ C. Illinger, F. Jeanneau, P. Juillot, T. Kachelhoffer, M.R. Kapp, H. Kettunen, L. Lakehal Ayat, A.C. Le Bihan, A. Lounis,⁶ C. Maazouzi, V. Mack, P. Majewski, D. Mangeol, J. Michel,⁶ S. Moreau, C. Olivetto, A. Pallarès,⁵ Y. Patois, P. Pralavorio, C. Racca, Y. Riahi, I. Ripp-Baudot, P. Schmitt, J.P. Schunck, G. Schuster, B. Schwaller, M.H. Sigward, J.L. Sohler, J. Speck, R. Strub, T. Todorov, R. Turchetta, P. Van Hove, D. Vintache, A. Zghiche

Institut de Physique Nucléaire,**IN2P3-CNRS, Université Claude Bernard Lyon 1, Villeurbanne, France**

M. Ageron, J.E. Augustin, C. Baty, G. Baulieu, M. Bedjidian, J. Blaha, A. Bonnevaux, G. Boudoul, P. Brunet, E. Chabanat, E.C. Chabert, R. Chierici, V. Chorowicz, C. Combaret, D. Contardo,¹ R. Della Negra, P. Depasse, O. Drapier, M. Dupanloup, T. Dupasquier, H. El Mamouni, N. Estre, J. Fay, S. Gascon, N. Giraud, C. Girerd, G. Guillot, R. Haroutunian, B. Ille, M. Lethuillier, N. Lumb, C. Martin, H. Mathez, G. Maurelli, S. Muanza, P. Pangaud, S. Perries, O. Ravat, E. Schibler, F. Schirra, G. Smadja, S. Tissot, B. Trocme, S. Vanzetto, J.P. Walder

Institute of High Energy Physics and Informatization,**Tbilisi State University, Tbilisi, Georgia**

Y. Bagaturia, D. Mjavia, A. Mzhavia, Z. Tsamalaidze

Institute of Physics Academy of Science, Tbilisi, Georgia

V. Roinishvili

RWTH Aachen University, I. Physikalisches Institut, Aachen, Germany

R. Adolphi, G. Anagnostou, R. Brauer, W. Braunschweig, H. Esser, L. Feld, W. Karpinski, A. Khomich, K. Klein, C. Kukulies, K. Lübelsmeyer, J. Olzem, A. Ostaptchouk, D. Pandoulas, G. Pierschel, F. Raupach, S. Schael, A. Schultz von Dratzig, G. Schwering, R. Siedling, M. Thomas, M. Weber, B. Wittmer, M. Wlochal

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

F. Adamczyk, A. Adolf, G. Altenhöfer, S. Bechstein, S. Bethke, P. Biallass, O. Biebel, M. Bontenackels, K. Bosseler, A. Böhm, M. Erdmann, H. Faissner,* B. Fehr, H. Fesefeldt, G. Fetchenhauer,¹ J. Frangenheim, J.H. Frohn, J. Grooten, T. Hebbeker, S. Hermann, E. Hermens, G. Hilgers, K. Hoepfner, C. Hof, E. Jacobi, S. Kappler, M. Kirsch, P. Kreuzer, R. Kupper, H.R. Lampe, D. Lanske,* R. Mameghani, A. Meyer, S. Meyer, T. Moers, E. Müller, R. Pahlke, B. Philipps, D. Rein, H. Reithler, W. Reuter, P. Rütten, S. Schulz, H. Schwarthoff, W. Sobek, M. Sowa, T. Stapelberg, H. Szczesny, H. Teykal, D. Teyssier, H. Tomme, W. Tomme, M. Tonutti, O. Tsigenov, J. Tutas,* J. Vandenhirtz, H. Wagner, M. Wegner, C. Zeidler

RWTH Aachen University, III. Physikalisches Institut B, Aachen, Germany

F. Beissel, M. Davids, M. Duda, G. Flügge, M. Giffels, T. Hermanns, D. Heydhausen, S. Kalinin, S. Kasselmann, G. Kaussen, T. Kress, A. Linn, A. Nowack, L. Perchalla, M. Poettgens, O. Pooth, P. Sauerland, A. Stahl, D. Tornier, M.H. Zoeller

Deutsches Elektronen-Synchrotron, Hamburg, Germany

U. Behrens, K. Borras, A. Flossdorf, D. Hatton, B. Hegner, M. Kasemann, R. Mankel, A. Meyer, J. Mnich, C. Rosemann, C. Youngman, W.D. Zeuner¹

University of Hamburg, Institute for Experimental Physics,**Hamburg, Germany**

F. Bechtel, P. Buhmann, E. Butz, G. Flucke, R.H. Hamdorf, U. Holm, R. Klanner, U. Pein, N. Schirm, P. Schleper, G. Steinbrück, R. Van Staa, R. Wolf

Institut für Experimentelle Kernphysik, Karlsruhe, Germany

B. Atz, T. Barvich, P. Blüm, F. Boegelspacher, H. Bol, Z.Y. Chen, S. Chowdhury, W. De Boer, P. Dehm, G. Dirkes, M. Fahrer, U. Felzmann, M. Frey, A. Furgeri, E. Gregoriev, F. Hartmann,¹ F. Hauler, S. Heier, K. Kärcher, B. Ledermann, S. Mueller, Th. Müller, D. Neuberger, C. Piasecki, G. Quast, K. Rabbertz, A. Sabellek, A. Scheurer, F.P. Schilling, H.J. Simonis, A. Skiba, P. Steck, A. Theel, W.H. Thümmel, A. Trunov, A. Vest, T. Weiler, C. Weiser, S. Weseler,* V. Zhukov⁷

Institute of Nuclear Physics "Demokritos", Aghia Paraskevi, Greece

M. Barone, G. Daskalakis, N. Dimitriou, G. Fanourakis, C. Filippidis, T. Geralis, C. Kalfas, K. Karafasoulis, A. Koimas, A. Kyriakis, S. Kyriazopoulou, D. Loukas, A. Markou, C. Markou,

N. Mastroyiannopoulos, C. Mavrommatis, J. Mousa, I. Papadakis, E. Petrakou, I. Siotis, K. Theofilatos, S. Tzamarias, A. Vayaki, G. Vermisoglou, A. Zachariadou

University of Athens, Athens, Greece

L. Gouskos, G. Karapostoli, P. Katsas, A. Panagiotou, C. Papadimitropoulos

University of Ioánnina, Ioánnina, Greece

X. Aslanoglou, I. Evangelou, P. Kokkas, N. Manthos, I. Papadopoulos, F.A. Triantis

**KFKI Research Institute for Particle and Nuclear Physics,
Budapest, Hungary**

G. Bencze,¹ L. Boldizsar, G. Debreczeni, C. Hajdu,¹ P. Hidas, D. Horvath,⁸ P. Kovacsaki, A. Laszlo, G. Odor, G. Patay, F. Sikler, G. Veres, G. Vesztregombi, P. Zalan

Institute of Nuclear Research ATOMKI, Debrecen, Hungary

A. Fenyvesi, J. Imrek, J. Molnar, D. Novak, J. Palinkas, G. Szekely

University of Debrecen, Debrecen, Hungary

N. Beni, A. Kapusi, G. Marian, B. Radics, P. Raics, Z. Szabo, Z. Szillasi,¹ Z.L. Trocsanyi, G. Zilizi

Panjab University, Chandigarh, India

H.S. Bawa, S.B. Beri, V. Bhandari, V. Bhatnagar, M. Kaur, J.M. Kohli, A. Kumar, B. Singh, J.B. Singh

University of Delhi, Delhi, India

S. Arora, S. Bhattacharya,⁹ S. Chatterji, S. Chauhan, B.C. Choudhary, P. Gupta, M. Jha, K. Ranjan, R.K. Shivpuri, A.K. Srivastava

Bhabha Atomic Research Centre, Mumbai, India

R.K. Choudhury, D. Dutta, M. Ghodgaonkar, S. Kailas, S.K. Kataria, A.K. Mohanty, L.M. Pant, P. Shukla, A. Topkar

Tata Institute of Fundamental Research — EHEP, Mumbai, India

T. Aziz, Sunanda Banerjee, S. Bose, S. Chendvankar, P.V. Deshpande, M. Guchait,¹⁰ A. Gurtu, M. Maity,¹¹ G. Majumder, K. Mazumdar, A. Nayak, M.R. Patil, S. Sharma, K. Sudhakar

Tata Institute of Fundamental Research — HEGR, Mumbai, India

B.S. Acharya, Sudeshna Banerjee, S. Bheesette, S. Dugad, S.D. Kalmani, V.R. Lakkireddi, N.K. Mondal, N. Panyam, P. Verma

Institute for Studies in Theoretical Physics & Mathematics (IPM),

Tehran, Iran

H. Arfaei, M. Hashemi, M. Mohammadi Najafabadi, A. Moshaii, S. Paktnat Mehdiabadi

University College Dublin, Dublin, Ireland

M. Felcini, M. Grunewald

Università di Bari, Politecnico di Bari e Sezione dell' INFN, Bari, Italy

K. Abadjiev, M. Abbrescia, L. Barbone, P. Cariola, F. Chiumarulo, A. Clemente, A. Colaleo,¹ D. Creanza, N. De Filippis,²⁵ M. De Palma, G. De Robertis, G. Donvito, R. Ferorelli, L. Fiore, M. Franco, D. Giordano, R. Guida, G. Iaselli, N. Lacalamita, F. Loddo, G. Maggi, M. Maggi, N. Manna, B. Marangelli, M.S. Mennea, S. My, S. Natali, S. Nuzzo, G. Papagni, C. Pinto, A. Pom-pili, G. Pugliese, A. Ranieri, F. Romano, G. Roselli, G. Sala, G. Selvaggi, L. Silvestris,¹ P. Tem-pesta, R. Trentadue, S. Tupputi, G. Zito

Università di Bologna e Sezione dell' INFN, Bologna, Italy

G. Abbiendi, W. Bacchi, C. Battilana, A.C. Benvenuti, M. Boldini, D. Bonacorsi, S. Braibant-Giacomelli, V.D. Cafaro, P. Capiluppi, A. Castro, F.R. Cavallo, C. Ciocca, G. Codispoti, M. Cuf-fiani, I. D'Antone, G.M. Dallavalle, F. Fabbri, A. Fanfani, S. Finelli, P. Giacomelli,¹² V. Giordano, M. Giunta, C. Grandi, M. Guerzoni, L. Guiducci, S. Marcellini, G. Masetti, A. Montanari, F.L. Navarria, F. Odorici, A. Paolucci, G. Pellegrini, A. Perrotta, A.M. Rossi, T. Rovelli, G.P. Siroli, G. Torromeo, R. Travaglini, G.P. Veronese

Università di Catania e Sezione dell' INFN, Catania, Italy

S. Albergo, M. Chiorboli, S. Costa, M. Galanti, G. Gatto Rotondo, N. Giudice, N. Guardone, F. Noto, R. Potenza, M.A. Saizu,⁴⁸ G. Salemi, C. Sutera, A. Tricomi, C. Tuve

Università di Firenze e Sezione dell' INFN, Firenze, Italy

L. Bellucci, M. Brianzi, G. Broccolo, E. Catacchini, V. Ciulli, C. Civinini, R. D'Alessandro, E. Fo-cardi, S. Frosali, C. Genta, G. Landi, P. Lenzi, A. Macchiolo, F. Maletta, F. Manolescu, C. Marchet-tini, L. Masetti,¹ S. Mersi, M. Meschini, C. Minelli, S. Paoletti, G. Parrini, E. Scarlini, G. Sguazzoni

Laboratori Nazionali di Frascati dell' INFN, Frascati, Italy

L. Benussi, M. Bertani, S. Bianco, M. Caponero, D. Colonna,¹ L. Daniello, F. Fabbri, F. Felli, M. Giardoni, A. La Monaca, B. Ortenzi, M. Pallotta, A. Paolozzi, C. Paris, L. Passamonti, D. Pier-luigi, B. Ponzio, C. Pucci, A. Russo, G. Saviano

Università di Genova e Sezione dell' INFN, Genova, Italy

P. Fabbricatore, S. Farinon, M. Greco, R. Musenich

**Laboratori Nazionali di Legnaro dell' INFN,
Legnaro, Italy (Associated Institute)**

S. Badoer, L. Berti, M. Biasotto, S. Fantinel, E. Frizziero, U. Gastaldi, M. Gulmini,¹ F. Lelli, G. Maron, S. Squizzato, N. Toniolo, S. Traldi

INFN e Università Degli Studi Milano-Bicocca, Milano, Italy

S. Banfi, R. Bertoni, M. Bonesini, L. Carbone, G.B. Cerati, F. Chignoli, P. D'Angelo, A. De Min, P. Dini, F.M. Farina,¹ F. Ferri, P. Govoni, S. Magni, M. Malberti, S. Malvezzi, R. Mazza, D. Menasce, V. Miccio, L. Moroni, P. Negri, M. Paganoni, D. Pedrini, A. Pullia, S. Ragazzi, N. Redaelli, M. Rovere, L. Sala, S. Sala, R. Salerno, T. Tabarelli de Fatis, V. Tancini, S. Taroni

Istituto Nazionale di Fisica Nucleare de Napoli (INFN), Napoli, Italy

A. Boiano, F. Cassese, C. Cassese, A. Cimmino, B. D'Aquino, L. Lista, D. Lomidze, P. Noli, P. Paolucci, G. Passeggio, D. Piccolo, L. Roscilli, C. Sciacca, A. Vanzanella

Università di Padova e Sezione dell' INFN, Padova, Italy

P. Azzi, N. Bacchetta,¹ L. Barcellan, M. Bellato, M. Benettoni, D. Bisello, E. Borsato, A. Candelori, R. Carlin, L. Castellani, P. Checchia, L. Ciano, A. Colombo, E. Conti, M. Da Rold, F. Dal Corso, M. De Giorgi, M. De Mattia, T. Dorigo, U. Dosselli, C. Fanin, G. Galet, F. Gasparini, U. Gasparini, A. Giraldo, P. Giubilato, F. Gonella, A. Gresele, A. Griggio, P. Guaita, A. Kaminskiy, S. Karaevskii, V. Khomenkov, D. Kostylev, S. Lacaprara, I. Lazzizzera, I. Lippi, M. Loreti, M. Margoni, R. Martinelli, S. Mattiazzo, M. Mazzucato, A.T. Meneguzzo, L. Modenese, F. Montecassiano,¹ A. Neviani, M. Nigro, A. Paccagnella, D. Pantano, A. Parenti, M. Passaseo,¹ R. Pedrotta, M. Pegoraro, G. Rampazzo, S. Reznikov, P. Ronchese, A. Sancho Daponte, P. Sartori, I. Stavitskiy, M. Tessaro, E. Torassa, A. Triossi, S. Vanini, S. Ventura, L. Ventura, M. Verlato, M. Zago, F. Zatti, P. Zotto, G. Zumerle

Università di Pavia e Sezione dell' INFN, Pavia, Italy

P. Baesso, G. Belli, U. Berzano, S. Bricola, A. Grelli, G. Musitelli, R. Nardò, M.M. Necchi, D. Pagano, S.P. Ratti, C. Riccardi, P. Torre, A. Vicini, P. Vitulo, C. Viviani

Università di Perugia e Sezione dell' INFN, Perugia, Italy

D. Aisa, S. Aisa, F. Ambroglini, M.M. Angarano, E. Babucci, D. Benedetti, M. Biasini, G.M. Bilei,¹ S. Bizzaglia, M.T. Brunetti, B. Caponeri, B. Checcucci, R. Covarelli, N. Dinu, L. Fanò, L. Farnesini, M. Giorgi, P. Lariccia, G. Mantovani, F. Moscatelli, D. Passeri, A. Piluso, P. Placidi, V. Postolache, R. Santinelli, A. Santocchia, L. Servoli, D. Spiga¹

Università di Pisa, Scuola Normale Superiore e Sezione dell' INFN, Pisa, Italy

P. Azzurri, G. Bagliesi,¹ G. Balestri, A. Basti, R. Bellazzini, L. Benucci, J. Bernardini, L. Berretta, S. Bianucci, T. Boccali, A. Bocci, L. Borrello, F. Bosi, F. Bracci, A. Brez, F. Calzolari, R. Castaldi, U. Cazzola, M. Ceccanti, R. Cecchi, C. Cerri, A.S. Cucoanes, R. Dell'Orso, D. Dobur, S. Dutta, F. Fiori, L. Foà, A. Gaggelli, S. Gennai,¹³ A. Giassi, S. Giusti, D. Kartashov, A. Kraan, L. Latronico, F. Ligabue, S. Linari, T. Lomtadze, G.A. Lungu,⁴⁸ G. Magazzu, P. Mammini, F. Mariani, G. Martinelli, M. Massa, A. Messineo, A. Moggi, F. Palla, F. Palmonari, G. Petragnani, G. Petrucciani, A. Profeti, F. Raffaelli, D. Rizzi, G. Sanguinetti, S. Sarkar, G. Segneri, D. Sentenac, A.T. Serban, A. Slav, P. Spagnolo, G. Spandre, R. Tenchini, S. Tolaini, G. Tonelli,¹ A. Venturi, P.G. Verdini, M. Vos, L. Zaccarelli

Università di Roma I e Sezione dell' INFN, Roma, Italy

S. Baccaro,¹⁴ L. Barone, A. Bartoloni, B. Borgia, G. Capradossi, F. Cavallari, A. Cecilia,¹⁴ D. D'Angelo, I. Dafinei, D. Del Re, E. Di Marco, M. Diemoz, G. Ferrara,¹⁴ C. Gargiulo, S. Guerra, M. Iannone, E. Longo, M. Montecchi,¹⁴ M. Nuccetelli, G. Organtini, A. Palma, R. Paramatti, F. Pellegrino, S. Rahatlou, C. Rovelli, F. Safai Tehrani, A. Zullo

Università di Torino e Sezione dell' INFN, Torino, Italy

G. Alampi, N. Amapane, R. Arcidiacono, S. Argiro, M. Arneodo,¹⁵ R. Bellan, F. Benotto, C. Biino, S. Bolognesi, M.A. Borgia, C. Botta, A. Brasolin, N. Cartiglia, R. Castello, G. Cerminara, R. Cirio, M. Cordero, M. Costa, D. Dattola, F. Dudo, G. Dellacasa, N. Demaria, G. Dughera, F. Dumitrache, R. Farano, G. Ferrero, E. Filoni, G. Kostyleva, H.E. Larsen, C. Mariotti, M. Marone, S. Maselli, E. Menichetti, P. Mereu, E. Migliore, G. Mila, V. Monaco, M. Musich, M. Nervo, M.M. Obertino,¹⁵ R. Panero, A. Parussa, N. Pastrone, C. Peroni, G. Petrillo, A. Romero, M. Ruspa,¹⁵ R. Sacchi, M. Scalise, A. Solano, A. Staiano, P.P. Trapani,¹ D. Trocino, V. Vaniev, A. Vilela Pereira, A. Zampieri

Università di Trieste e Sezione dell' INFN, Trieste, Italy

S. Belforte, F. Cossutti, G. Della Ricca, B. Gobbo, C. Kavka, A. Penzo

Chungbuk National University, Chongju, Korea

Y.E. Kim

Kangwon National University, Chunchon, Korea

S.K. Nam

Kyungpook National University, Daegu, Korea

D.H. Kim, G.N. Kim, J.C. Kim, D.J. Kong, S.R. Ro, D.C. Son

Wonkwang University, Iksan, Korea

S.Y. Park

Cheju National University, Jeju, Korea

Y.J. Kim

Chonnam National University, Kwangju, Korea

J.Y. Kim, I.T. Lim

Dongshin University, Naju, Korea

M.Y. Pac

Seonam University, Namwon, Korea

S.J. Lee

Konkuk University, Seoul, Korea

S.Y. Jung, J.T. Rhee

Korea University, Seoul, Korea

S.H. Ahn, B.S. Hong, Y.K. Jeng, M.H. Kang, H.C. Kim, J.H. Kim, T.J. Kim, K.S. Lee, J.K. Lim, D.H. Moon, I.C. Park, S.K. Park, M.S. Ryu, K.-S. Sim, K.J. Son

Seoul National University, Seoul, Korea

S.J. Hong

Sungkyunkwan University, Suwon, Korea

Y.I. Choi

Centro de Investigacion y de Estudios Avanzados del IPN, Mexico City, Mexico

H. Castilla Valdez, A. Sanchez Hernandez

Universidad Iberoamericana, Mexico City, Mexico

S. Carrillo Moreno

Universidad Autonoma de San Luis Potosi, San Luis Potosi, Mexico

A. Morelos Pineda

Technische Universiteit Eindhoven, Eindhoven, Netherlands (Associated Institute)

A. Aerts, P. Van der Stok, H. Weffers

University of Auckland, Auckland, New Zealand

P. Allfrey, R.N.C. Gray, M. Hashimoto, D. Krofcheck

University of Canterbury, Christchurch, New Zealand

A.J. Bell, N. Bernardino Rodrigues, P.H. Butler, S. Churchwell, R. Knegjens, S. Whitehead, J.C. Williams

National Centre for Physics, Quaid-I-Azam University, Islamabad, Pakistan

Z. Aftab, U. Ahmad, I. Ahmed, W. Ahmed, M.I. Asghar, S. Asghar, G. Dad, M. Hafeez, H.R. Hoorani, I. Hussain, N. Hussain, M. Iftikhar, M.S. Khan, K. Mehmood, A. Osman, H. Shahzad, A.R. Zafar

National University of Sciences And Technology,**Rawalpindi Cantt, Pakistan (Associated Institute)**

A. Ali, A. Bashir, A.M. Jan, A. Kamal, F. Khan, M. Saeed, S. Tanvir, M.A. Zafar

Institute of Nuclear Physics, Polish Academy of Sciences, Cracow, Poland

J. Blocki, A. Cyz, E. Gladysz-Dziadus, S. Mikocki, M. Rybczynski, J. Turnau, Z. Wlodarczyk, P. Zychowski

Institute of Experimental Physics, Warsaw, Poland

K. Bunkowski, M. Cwiok, H. Czirkowski, R. Dabrowski, W. Dominik, K. Doroba, A. Kalinowski, K. Kierzkowski, M. Konecki, J. Krolikowski, I.M. Kudla, M. Pietrusinski, K. Pozniak,¹⁶ W. Zabolotny,¹⁶ P. Zych

Soltan Institute for Nuclear Studies, Warsaw, Poland

R. Gokieli, L. Goscilo, M. Górska, K. Nawrocki, P. Traczyk, G. Wrochna, P. Zalewski

Warsaw University of Technology, Institute of Electronic Systems,**Warsaw, Poland (Associated Institute)**

K.T. Pozniak, R. Romaniuk, W.M. Zabolotny

Laboratório de Instrumentação e Física Experimental de Partículas,**Lisboa, Portugal**

R. Alemany-Fernandez, C. Almeida, N. Almeida, A.S. Araujo Vila Verde, T. Barata Monteiro, M. Bluj, S. Da Mota Silva, A. David Tinoco Mendes, M. Freitas Ferreira, M. Gallinaro, M. Husejko, A. Jain, M. Kazana, P. Musella, R. Nobrega, J. Rasteiro Da Silva, P.Q. Ribeiro, M. Santos, P. Silva, S. Silva, I. Teixeira, J.P. Teixeira, J. Varela,¹ G. Varner, N. Vaz Cardoso

Joint Institute for Nuclear Research, Dubna, Russia

I. Altsybeev, K. Babich, A. Belkov,* I. Belotelov, P. Bunin, S. Chesnevskaia, V. Elsha, Y. Ershov, I. Filozova, M. Finger, M. Finger Jr., A. Golunov, I. Golutvin, N. Gorbounov, I. Gramenitski, V. Kalagin, A. Kamenev, V. Karjavin, S. Khabarov, V. Khabarov, Y. Kiryushin, V. Konoplyanikov, V. Korenkov, G. Kozlov, A. Kurenkov, A. Lanev, V. Lysiakov, A. Malakhov, I. Melnitchenko, V.V. Mitsyn, K. Moisenz, P. Moisenz, S. Movchan, E. Nikonov, D. Oleynik, V. Palichik, V. Pereylin, A. Petrosyan, E. Rogalev, V. Samsonov, M. Savina, R. Semenov, S. Sergeev,¹⁷ S. Shmatov, S. Shulha, V. Smirnov, D. Smolin, A. Tcheremoukhine, O. Teryaev, E. Tikhonenko, A. Urkinbaev, S. Vasil'ev, A. Vishnevskiy, A. Volodko, N. Zamiatin, A. Zarubin, P. Zarubin, E. Zubarev

Petersburg Nuclear Physics Institute, Gatchina (St Petersburg), Russia

N. Bondar, Y. Gavrikov, V. Golovtsov, Y. Ivanov, V. Kim, V. Kozlov, V. Lebedev, G. Makarenkov, F. Moroz, P. Neustroev, G. Obrant, E. Orishchin, A. Petrunin, Y. Shcheglov, A. Shchetkovskiy, V. Sknar, V. Skorobogatov, I. Smirnov, V. Sulimov, V. Tarakanov, L. Uvarov, S. Vavilov, G. Velichko, S. Volkov, A. Vorobyev

High Temperature Technology Center of Research & Development Institute of Power Engineering, (HTTC RDIPE),**Moscow, Russia (Associated Institute)**

D. Chmelev, D. Druzhkin,¹ A. Ivanov, V. Kudinov, O. Logatchev, S. Onishchenko, A. Orlov, V. Sakharov, V. Smetannikov, A. Tikhomirov, S. Zavodthikov

Institute for Nuclear Research, Moscow, Russia

Yu. Andreev, A. Anisimov, V. Duk, S. Ginenko, N. Golubev, D. Gorbunov, M. Kirsanov, N. Krasnikov, V. Matveev, A. Pashenkov, A. Pastsyak, V.E. Postoev, A. Sadovski, A. Skassyrskia, Alexander Solovey, Anatoly Solovey, D. Soloviev, A. Toropin, S. Troitsky

Institute for Theoretical and Experimental Physics, Moscow, Russia

A. Alekhin, A. Baldov, V. Epshteyn, V. Gavrilov, N. Ilina, V. Kaftanov,^{*} V. Karpishin, I. Kiselevich, V. Kolosov, M. Kossov,¹ A. Krokhotin, S. Kuleshov, A. Oulianov, A. Pozdnyakov, G. Safronov, S. Semenov, N. Stepanov, V. Stolin, E. Vlasov,¹ V. Zaytsev

Moscow State University, Moscow, Russia

E. Boos, M. Dubinin,¹⁸ L. Dudko, A. Ershov, G. Eyyubova, A. Gribushin, V. Ilyin, V. Klyukhin, O. Kodolova, N.A. Kruglov, A. Kryukov, I. Loktin, L. Malinina, V. Mikhaylin, S. Petrushanko, L. Sarycheva, V. Savrin, L. Shamardin, A. Sherstnev, A. Snigirev, K. Teplov, I. Vardanyan

P.N. Lebedev Physical Institute, Moscow, Russia

A.M. Fomenko, N. Konovalova, V. Kozlov, A.I. Lebedev, N. Lvova, S.V. Rusakov, A. Terkulov

State Research Center of Russian Federation - Institute for High Energy Physics, Protvino, Russia

V. Abramov, S. Akimenko, A. Artamonov, A. Ashimova, I. Azhgirey, S. Bitioukov, O. Chikilev, K. Datsko, A. Filine, A. Godizov, P. Goncharov, V. Grishin,¹ A. Inyakin,¹⁹ V. Kachanov, A. Kalinin, A. Khmelnikov, D. Konstantinov, A. Korablev, V. Krychkine, A. Krinitsyn, A. Levine, I. Lobov, V. Lukin, Y. Mel'nik, V. Molchanov, V. Petrov, V. Petukhov, V. Pikalov, A. Ryazanov, R. Ryutin, V. Shelikhov, V. Skvortsov, S. Slabospitsky, A. Sobol, A. Sytine, V. Talov, L. Tourtchanovitch, S. Troshin, N. Tyurin, A. Uzunian, A. Volkov, S. Zelepoukine²⁰

Electron National Research Institute, St Petersburg, Russia (Associated Institute)

V. Lukyanov, G. Mamaeva, Z. Prilutskaya, I. Rumyantsev, S. Sokha, S. Tataurschikov, I. Vasilyev

Vinca Institute of Nuclear Sciences, Belgrade, Serbia

P. Adzic, I. Anicin,²¹ M. Djordjevic, D. Jovanovic,²¹ D. Maletic, J. Puzovic,²¹ N. Smiljkovic¹

Centro de Investigaciones Energeticas Medioambientales y Tecnologicas (CIEMAT), Madrid, Spain

E. Aguayo Navarrete, M. Aguilar-Benitez, J. Ahijado Munoz, J.M. Alarcon Vega, J. Alberdi, J. Alcaraz Maestre, M. Aldaya Martin, P. Arce,¹ J.M. Barcala, J. Berdugo, C.L. Blanco Ramos, C. Burgos Lazaro, J. Caballero Bejar, E. Calvo, M. Cerrada, M. Chamizo Llatas, J.J. Chercoles Catalán, N. Colino, M. Daniel, B. De La Cruz, A. Delgado Peris, C. Fernandez Bedoya, A. Ferrando, M.C. Fouz, D. Francia Ferrero, J. Garcia Romero, P. Garcia-Abia, O. Gonzalez Lopez, J.M. Hernandez, M.I. Josa, J. Marin, G. Merino, A. Molinero, J.J. Navarrete, J.C. Oller, J. Puerta Pelayo, J.C. Puras Sanchez, J. Ramirez, L. Romero, C. Villanueva Munoz, C. Willmott, C. Yuste

Universidad Autónoma de Madrid, Madrid, Spain

C. Albajar, J.F. de Trocóniz, I. Jimenez, R. Macias, R.F. Teixeira

Universidad de Oviedo, Oviedo, SpainJ. Cuevas, J. Fernández Menéndez, I. Gonzalez Caballero,²² J. Lopez-Garcia, H. Naves Sordo, J.M. Vizan Garcia**Instituto de Física de Cantabria (IFCA), CSIC-Universidad de Cantabria, Santander, Spain**I.J. Cabrillo, A. Calderon, D. Cano Fernandez, I. Diaz Merino, J. Duarte Campderros, M. Fernandez, J. Fernandez Menendez,²³ C. Figueroa, L.A. Garcia Moral, G. Gomez, F. Gomez Casademunt, J. Gonzalez Sanchez, R. Gonzalez Suarez, C. Jorda, P. Lobelle Pardo, A. Lopez Garcia, A. Lopez Virto, J. Marco, R. Marco, C. Martinez Rivero, P. Martinez Ruiz del Arbol, F. Matorras, P. Orviz Fernandez, A. Patino Revuelta,¹ T. Rodrigo, D. Rodriguez Gonzalez, A. Ruiz Jimeno, L. Scodellaro, M. Sobron Sanudo, I. Vila, R. Vilar Cortabitarte**Universität Basel, Basel, Switzerland**

M. Barbero, D. Goldin, B. Henrich, L. Tauscher, S. Vlachos, M. Wadhwa

CERN, European Organization for Nuclear Research, Geneva, Switzerland

D. Abbaneo, S.M. Abbas,²⁴ I. Ahmed,²⁴ S. Akhtar, M.I. Akhtar,²⁴ E. Albert, M. Alidra, S. Ashby, P. Aspell, E. Auffray, P. Baillon, A. Ball, S.L. Bally, N. Bangert, R. Barillère, D. Barney, S. Beauceron, F. Beaudette,²⁵ G. Benelli, R. Benetta, J.L. Benichou, W. Bialas, A. Bjorkbo, D. Blechschmidt, C. Bloch, P. Bloch, S. Bonacini, J. Bos, M. Bosteels, V. Boyer, A. Branson, H. Breuker, R. Bruneliere, O. Buchmuller, D. Campi, T. Camporesi, A. Caner, E. Cano, E. Carrone, A. Cattai, J.P. Chatelain, M. Chauvey, T. Christiansen, M. Ciganek, S. Cittolin, J. Cogan, A. Conde Garcia, H. Cornet, E. Corrin, M. Corvo, S. Cucciarelli, B. Curé, D. D'Enterria, A. De Roeck, T. de Visser, C. Delaere, M. Delattre, C. Deldicque, D. Delikaris, D. Deyrail, S. Di Vincenzo,²⁶ A. Domeniconi, S. Dos Santos, G. Duthion, L.M. Edera, A. Elliott-Peisert, M. Eppard, F. Fanzago, M. Favre, H. Foeth, R. Folch, N. Frank, S. Fratianni, M.A. Freire, A. Frey, A. Fucci, W. Funk, A. Gaddi, F. Gagliardi, M. Gastal, M. Gateau, J.C. Gayde, H. Gerwig, A. Ghezzi, D. Gigi, K. Gill, A.S. Giolo-Nicollerat, J.P. Girod, F. Glege, W. Glessing, R. Gomez-Reino Garrido, R. Goudard, R. Grabit, J.P. Grillet, P. Gutierrez Llamas, E. Gutierrez Mlot, J. Gutleber, R. Hall-wilton, R. Hammarstrom, M. Hansen, J. Harvey, A. Hervé, J. Hill, H.F. Hoffmann, A. Holzner, A. Honma, D. Hufnagel, M. Huhtinen, S.D. Ilie, V. Innocente, W. Jank, P. Janot, P. Jarron, M. Jeanrenaud, P. Jouvel, R. Kerkach, K. Kloukinas, L.J. Kottelat, J.C. Labbé, D. Lacroix, X. Lagrue,* C. Lasseur, E. Laure, J.F. Laurens, P. Lazeyras, J.M. Le Goff, M. Lebeau,²⁸ P. Lecoq, F. Lemeilleur, M. Lenzi, N. Leonardo, C. Leonidopoulos, M. Letheren, M. Liendl, F. Limia-Conde, L. Linssen, C. Ljuslin, B. Lofstedt, R. Loos, J.A. Lopez Perez, C. Lourenco, A. Lyonnet, A. Machard, R. Mackenzie, N. Magini, G. Maire, L. Malgeri, R. Malina, M. Mannelli, A. Marchioro, J. Martin, F. Meijers, P. Meridiani, E. Meschi, T. Meyer, A. Meynet Cordonnier, J.F. Michaud, L. Mirabito, R. Moser, F. Mossiere, J. Muffat-Joly, M. Mulders, J. Mulon, E. Murer, P. Mättig, A. Oh, A. Onnela, M. Oriunno, L. Orsini, J.A. Osborne,

C. Paillard, I. Pal, G. Papotti, G. Passardi, A. Patino-Revuelta, V. Patras, B. Perea Solano, E. Perez, G. Perinic, J.F. Pernot, P. Petagna, P. Petiot, P. Petit, A. Petrilli, A. Pfeiffer, C. Piccut, M. Pimiä, R. Pintus, M. Pioppi, A. Placci, L. Pollet, H. Postema, M.J. Price, R. Principe, A. Racz, E. Radermacher, R. Ranieri, G. Raymond, P. Rebecchi, J. Rehn, S. Reynaud, H. Rezvani Naraghi, D. Ricci, M. Ridel, M. Risoldi, P. Rodrigues Simoes Moreira, A. Rohlev, G. Roiron, G. Rolandi,²⁷ P. Rumerio, O. Runolfsson, V. Ryjov, H. Sakulin, D. Samyn, L.C. Santos Amaral, H. Sauce, E. Sbrissa, P. Scharff-Hansen, P. Schieferdecker, W.D. Schlatter, B. Schmitt, H.G. Schmuecker, M. Schröder, C. Schwick, C. Schäfer, I. Segoni, P. Sempere Roldán, S. Sgobba, A. Sharma, P. Siegrist, C. Sigaud, N. Sinanis, T. Sobrier, P. Sphicas,²⁸ M. Spiropulu, G. Stefanini, A. Strandlie, F. Szoncsó, B.G. Taylor, O. Teller, A. Thea, E. Tournefier, D. Treille, P. Tropea, J. Troska, E. Tsesmelis, A. Tsirou, J. Valls, I. Van Vulpen, M. Vander Donckt, F. Vasey, M. Vazquez Acosta, L. Veillet, P. Vichoudis, G. Waurick, J.P. Wellisch, P. Wertelaers, M. Wilhelmsson, I.M. Willers, M. Winkler, M. Zanetti

Paul Scherrer Institut, Villigen, Switzerland

W. Bertl, K. Deiters, P. Dick, W. Erdmann, D. Feichtinger, K. Gabathuler, Z. Hochman, R. Horisberger, Q. Ingram, H.C. Kaestli, D. Kotlinski, S. König, P. Poerschke, D. Renker, T. Rohe, T. Sakhelashvili,²⁹ A. Starodumov³⁰

Institute for Particle Physics, ETH Zurich, Zurich, Switzerland

V. Aleksandrov,³¹ F. Behner, I. Beniozef,³¹ B. Betev, B. Blau, A.M. Brett, L. Caminada,³² Z. Chen, N. Chivarov,³¹ D. Da Silva Di Calafiori, S. Dambach,³² G. Davatz, V. Delachenal,¹ R. Della Marina, H. Dimov,³¹ G. Dissertori, M. Dittmar, L. Djambazov, M. Dröge, C. Eggel,³² J. Ehlers, R. Eichler, M. Elmiger, G. Faber, K. Freudenreich, J.F. Fuchs,¹ G.M. Georgiev,³¹ C. Grab, C. Haller, J. Herrmann, M. Hilgers, W. Hintz, Hans Hofer, Heinz Hofer, U. Horisberger, I. Horvath, A. Hristov,³¹ C. Humbertclaude, B. Iliev,³¹ W. Kastli, A. Kruse, J. Kuipers,* U. Langenegger, P. Lecomte, E. Lejeune, G. Leshev, C. Lesmond, B. List, P.D. Luckey, W. Lustermann, J.D. Maillefaud, C. Marchica,³² A. Maurisset,¹ B. Meier, P. Milenovic,³³ M. Milesi, F. Moortgat, I. Nanov,³¹ A. Nardulli, F. Nessi-Tedaldi, B. Panev,³⁴ L. Pape, F. Pauss, E. Petrov,³¹ G. Petrov,³¹ M.M. Peynekov,³¹ D. Pitzl, T. Punz, P. Riboni, J. Riedlberger, A. Rizzi, F.J. Ronga, P.A. Roykov,³¹ U. Röser, D. Schinzel, A. Schöning, A. Sourkov,³⁵ K. Stanishev,³¹ S. Stoenchev,³¹ F. Stöckli, H. Suter, P. Trüb,³² S. Udriot, D.G. Uzunova,³¹ I. Veltchev,³¹ G. Viertel, H.P. von Gunten, S. Waldmeier-Wicki, R. Weber, M. Weber, J. Weng, M. Wensveen,¹ F. Wittgenstein, K. Zagoursky³¹

Universität Zürich, Zürich, Switzerland

E. Alagoz, C. Amsler, V. Chiochia, C. Hoermann, C. Regenfus, P. Robmann, T. Rommerskirchen, A. Schmidt, S. Steiner, D. Tsirikas, L. Wilke

National Central University, Chung-Li, Taiwan

S. Blyth, Y.H. Chang, E.A. Chen, A. Go, C.C. Hung, C.M. Kuo, S.W. Li, W. Lin

National Taiwan University (NTU), Taipei, Taiwan

P. Chang, Y. Chao, K.F. Chen, Z. Gao,¹ G.W.S. Hou, Y.B. Hsiung, Y.J. Lei, S.W. Lin, R.S. Lu, J.G. Shiu, Y.M. Tzeng, K. Ueno, Y. Velikzhanin, C.C. Wang, M.-Z. Wang

Cukurova University, Adana, Turkey

S. Aydin, A. Azman, M.N. Bakirci, S. Basegmez, S. Cerci, I. Dumanoglu, S. Erturk,³⁶ E. Eskut, A. Kayis Topaksu, H. Kisoglu, P. Kurt, K. Ozdemir, N. Ozdes Koca, H. Ozkurt, S. Ozturk, A. Polatöz, K. Sogut,³⁷ H. Topakli, M. Vergili, G. Önengüt

Middle East Technical University, Physics Department, Ankara, Turkey

H. Gamsizkan, S. Sekmen, M. Serin-Zeyrek, R. Sever, M. Zeyrek

Bogaziçi University, Department of Physics, Istanbul, Turkey

M. Deliomeroglu, E. Gülmez, E. Isiksal,³⁸ M. Kaya,³⁹ O. Kaya,³⁹ S. Ozkorucuklu,⁴⁰ N. Sonmez⁴¹

Institute of Single Crystals of National Academy of Science,**Kharkov, Ukraine**

B. Grinev, V. Lyubynskiy, V. Senchyshyn

National Scientific Center, Kharkov Institute of Physics and Technology, Kharkov, UKRAINE

L. Levchuk, S. Lukyanenko, D. Soroka, P. Sorokin, S. Zub

Centre for Complex Cooperative Systems, University of the West of England, Bristol, United Kingdom (Associated Institute)

A. Anjum, N. Baker, T. Hauer, R. McClatchey, M. Odeh, D. Rogulin, A. Solomonides

University of Bristol, Bristol, United Kingdom

J.J. Brooke, R. Croft, D. Cussans, D. Evans, R. Frazier, N. Grant, M. Hansen, R.D. Head, G.P. Heath, H.F. Heath, C. Hill, B. Huckvale, J. Jackson,⁴² C. Lynch, C.K. Mackay, S. Metson, S.J. Nash, D.M. Newbold,⁴² A.D. Presland, M.G. Probert, E.C. Reid, V.J. Smith, R.J. Tapper, R. Walton

Rutherford Appleton Laboratory, Didcot, United Kingdom

E. Bateman, K.W. Bell, R.M. Brown, B. Camanzi, I.T. Church, D.J.A. Cockerill, J.E. Cole, J.F. Connolly,* J.A. Coughlan, P.S. Flower, P. Ford, V.B. Francis, M.J. French, S.B. Galagedera, W. Gannon, A.P.R. Gay, N.I. Geddes, R.J.S. Greenhalgh, R.N.J. Halsall, W.J. Haynes, J.A. Hill, F.R. Jacob, P.W. Jeffreys, L.L. Jones, B.W. Kennedy, A.L. Lintern, A.B. Lodge, A.J. Maddox, Q.R. Morrissey, P. Murray, G.N. Patrick, C.A.X. Pattison, M.R. Pearson, S.P.H. Quinton, G.J. Rogers, J.G. Salisbury, A.A. Shah, C.H. Shepherd-Themistocleous, B.J. Smith, M. Sproston, R. Stephenson, S. Taghavi, I.R. Tomalin, M.J. Torbet, J.H. Williams, W.J. Womersley, S.D. Worm, F. Xing

Imperial College, University of London, London, United Kingdom

M. Apollonio, F. Arteche, R. Bainbridge, G. Barber, P. Barrillon, J. Batten, R. Beuselinck, P.M. Brambilla Hall, D. Britton, W. Cameron, D.E. Clark, I.W. Clark, D. Colling, N. Cripps, G. Davies, M. Della Negra, G. Dewhurst, S. Dris, C. Foudas, J. Fulcher, D. Futyan, D.J. Graham, S. Greder, S. Greenwood, G. Hall, J.F. Hassard, J. Hays, G. Iles, V. Kasey, M. Khaleeq, J. Leaver, P. Lewis, B.C. MacEvoy, O. Maroney, E.M. McLeod, D.G. Miller, J. Nash, A. Nikitenko,³⁰ E. Noah Messomo, M. Noy, A. Papageorgiou, M. Pesaresi, K. Petridis, D.R. Price, X. Qu, D.M. Raymond, A. Rose, S. Rutherford, M.J. Ryan, F. Sciacca, C. Seez, P. Sharp,¹ G. Sidiropoulos,¹ M. Stettler,¹ M. Stoye, J. Striebig, M. Takahashi, H. Tallini, A. Tapper, C. Timlin, L. Toudup, T. Virdee,¹ S. Wakefield, P. Walsham, D. Wardrobe, M. Wingham, Y. Zhang, O. Zorba

Brunel University, Uxbridge, United Kingdom

C. Da Via, I. Goitom, P.R. Hobson, D.C. Imrie, I. Reid, C. Selby, O. Sharif, L. Teodorescu, S.J. Watts, I. Yaselli

Boston University, Boston, Massachusetts, U.S.A.

E. Hazen, A. Heering, A. Heister, C. Lawlor, D. Lazic, E. Machado, J. Rohlf, L. Sulak, F. Varela Rodriguez, S. X. Wu

Brown University, Providence, Rhode Island, U.S.A.

A. Avetisyan, T. Bose, L. Christofek, D. Cutts, S. Esen, R. Hooper, G. Landsberg, M. Narain, D. Nguyen, T. Speer, K.V. Tsang

University of California, Davis, Davis, California, U.S.A.

R. Breedon, M. Case, M. Chertok, J. Conway, P.T. Cox, J. Dolen, R. Erbacher, Y. Fisyak, E. Friis, G. Grim, B. Holbrook, W. Ko, A. Kopecky, R. Lander, F.C. Lin, A. Lister, S. Maruyama, D. Pellett, J. Rowe, M. Searle, J. Smith, A. Soha, M. Squires, M. Tripathi, R. Vasquez Sierra, C. Veelken

University of California, Los Angeles, Los Angeles, California, U.S.A.

V. Andreev, K. Arisaka, Y. Bonushkin, S. Chandramouly, D. Cline, R. Cousins, S. Erhan,¹ J. Hauser, M. Ignatenko, C. Jarvis, B. Lisowski,* C. Matthey, B. Mohr, J. Mumford, S. Otwinowski, Y. Pischalnikov, G. Rakness, P. Schlein,* Y. Shi, B. Tannenbaum, J. Tucker, V. Valuev, R. Wallny, H.G. Wang, X. Yang, Y. Zheng

University of California, Riverside, Riverside, California, U.S.A.

J. Andreeva, J. Babb, S. Campana, D. Chrisman, R. Clare, J. Ellison, D. Fortin, J.W. Gary, W. Gorn, G. Hanson, G.Y. Jeng, S.C. Kao, J.G. Layter, F. Liu, H. Liu, A. Luthra, G. Pasztor,⁴³ H. Rick, A. Satpathy, B.C. Shen,* R. Stringer, V. Sytnik, P. Tran, S. Villa, R. Wilken, S. Wimpenny, D. Zer-Zion

University of California, San Diego, La Jolla, California, U.S.A.

J.G. Branson, J.A. Coarasa Perez, E. Dusinberre, R. Kelley, M. Lebourgeois, J. Letts, E. Lipeles,

B. Mangano, T. Martin, M. Mojaver, J. Muelmenstaedt, M. Norman, H.P. Paar, A. Petrucci, H. Pi, M. Pieri, A. Rana, M. Sani, V. Sharma, S. Simon, A. White, F. Würthwein, A. Yagil

University of California, Santa Barbara, Santa Barbara, California, U.S.A.

A. Affolder, A. Allen, C. Campagnari, M. D'Alfonso, A. Dierlamm,²³ J. Garberson, D. Hale, J. Incandela, P. Kalavase, S.A. Koay, D. Kovalskyi, V. Krutelyov, S. Kyre, J. Lamb, S. Lowette, M. Nikolic, V. Pavlunin, F. Rebassoo, J. Ribnik, J. Richman, R. Rossin, Y.S. Shah, D. Stuart, S. Swain, J.R. Vlimant, D. White, M. Witherell

California Institute of Technology, Pasadena, California, U.S.A.

A. Bornheim, J. Bunn, J. Chen, G. Denis, P. Galvez, M. Gataullin, I. Legrand, V. Litvine, Y. Ma, R. Mao, D. Nae, I. Narsky, H.B. Newman, T. Orimoto, C. Rogan, S. Shevchenko, C. Steenberg, X. Su, M. Thomas, V. Timciuc, F. van Lingen, J. Veverka, B.R. Voicu,¹ A. Weinstein, R. Wilkinson, Y. Xia, Y. Yang, L.Y. Zhang, K. Zhu, R.Y. Zhu

Carnegie Mellon University, Pittsburgh, Pennsylvania, U.S.A.

T. Ferguson, D.W. Jang, S.Y. Jun, M. Paulini, J. Russ, N. Terentyev, H. Vogel, I. Vorobiev

University of Colorado at Boulder, Boulder, Colorado, U.S.A.

M. Bunce, J.P. Cumalat, M.E. Dinardo, B.R. Drell, W.T. Ford, K. Givens, B. Heyburn, D. Johnson, U. Nauenberg, K. Stenson, S.R. Wagner

Cornell University, Ithaca, New York, U.S.A.

L. Agostino, J. Alexander, F. Blekman, D. Cassel, S. Das, J.E. Duboscq, L.K. Gibbons, B. Heltsley, C.D. Jones, V. Kuznetsov, J.R. Patterson, D. Riley, A. Ryd, S. Stroiney, W. Sun, J. Thom, J. Vaughan, P. Wittich

Fairfield University, Fairfield, Connecticut, U.S.A.

C.P. Beetz, G. Cirino, V. Podrasky, C. Sanzeni, D. Winn

Fermi National Accelerator Laboratory, Batavia, Illinois, U.S.A.

S. Abdullin,¹ M.A. Afafq,¹ M. Albrow, J. Amundson, G. Apollinari, M. Atac, W. Badgett, J.A. Bakken, B. Baldin, K. Banicz, L.A.T. Bauerdick, A. Baumbaugh, J. Berryhill, P.C. Bhat, M. Binkley, I. Bloch, F. Borcherding, A. Boubekeur, M. Bowden, K. Burkett, J.N. Butler, H.W.K. Cheung, G. Chevenier,¹ F. Chlebana, I. Churin, S. Cihangir, W. Dagenhart, M. Demarteau, D. Dykstra, D.P. Eartly, J.E. Elias, V.D. Elvira, D. Evans, I. Fisk, J. Freeman, I. Gaines, P. Gartung, F.J.M. Geurts, L. Giacchetti, D.A. Glenzinski, E. Gottschalk, T. Grassi, D. Green, C. Grimm, Y. Guo, O. Gutsche, A. Hahn, J. Hanlon, R.M. Harris, T. Hesselroth, S. Holm, B. Holzman, E. James, H. Jensen, M. Johnson, U. Joshi, B. Klima, S. Kossiakov, K. Kousouris, J. Kowalkowski, T. Kramer, S. Kwan, C.M. Lei, M. Leininger, S. Los, L. Lueking, G. Lukhanin, S. Lusin,¹ K. Maeshima, J.M. Marraffino, D. Mason, P. McBride, T. Miao, S. Moccia, N. Mokhov, S. Mrenna, S.J. Murray, C. Newman-Holmes, C. Noeding, V. O'Dell, M. Paterno, D. Petravick, R. Pordes, O. Prokofyev, N. Ratnikova, A. Ronzhin, V. Sekhri, E. Sexton-Kennedy, I. Sfilgoi,

T.M. Shaw, E. Skup, R.P. Smith,* W.J. Spalding, L. Spiegel, M. Stavrianakou, G. Stiehr, A.L. Stone, I. Suzuki, P. Tan, W. Tanenbaum, L.E. Temple, S. Tkaczyk,¹ L. Uplegger, E.W. Vaandering, R. Vidal, R. Wands, H. Wenzel, J. Whitmore, E. Wicklund, W.M. Wu, Y. Wu, J. Yarba, V. Yarba, F. Yumiceva, J.C. Yun, T. Zimmerman

University of Florida, Gainesville, Florida, U.S.A.

D. Acosta, P. Avery, V. Barashko, P. Bartalini, D. Bourilkov, R. Cavanaugh, S. Dolinsky, A. Drozdetskiy, R.D. Field, Y. Fu, I.K. Furic, L. Gorn, D. Holmes, B.J. Kim, S. Klimenko, J. Konigsberg, A. Korytov, K. Kotov, P. Levchenko, A. Madorsky, K. Matchev, G. Mitselmakher, Y. Pakhotin, C. Prescott, L. Ramond, P. Ramond, M. Schmitt, B. Scurlock, J. Stasko, H. Stoeck, D. Wang, J. Yelton

Florida International University, Miami, Florida, U.S.A.

V. Gaultney, L. Kramer, L.M. Lebolo, S. Linn, P. Markowitz, G. Martinez, J.L. Rodriguez

Florida State University, Tallahassee, Florida, U.S.A.

T. Adams, A. Askew, O. Atramentov, M. Bertoldi, W.G.D. Dharmaratna,⁴⁹ Y. Gershtein, S.V. Gleyzer, S. Hagopian, V. Hagopian, C.J. Jenkins, K.F. Johnson, H. Prosper, D. Simek, J. Thomaston

Florida Institute of Technology, Melbourne, Florida, U.S.A.

M. Baarmand, L. Baksay,⁴⁴ S. Guragain, M. Hohlmann, H. Mermerkaya, R. Ralich, I. Vodopiyanov

University of Illinois at Chicago (UIC), Chicago, Illinois, U.S.A.

M.R. Adams, I. M. Anghel, L. Apanasevich, O. Barannikova, V.E. Bazterra, R.R. Betts, C. Dragoiu, E.J. Garcia-Solis, C.E. Gerber, D.J. Hofman, R. Hollis, A. Iordanova, S. Khalatian, C. Mironov, E. Shabalina, A. Smoron, N. Varelas

The University of Iowa, Iowa City, Iowa, U.S.A.

U. Akgun, E.A. Albayrak, A.S. Ayan, R. Briggs, K. Cankocak,⁴⁵ W. Clarida, A. Cooper, P. Deb-bins, F. Duru, M. Fountain, E. McCliment, J.P. Merlo, A. Mestvirishvili, M.J. Miller, A. Moeller, C.R. Newsom, E. Norbeck, J. Olson, Y. Onel, L. Perera, I. Schmidt, S. Wang, T. Yetkin

Iowa State University, Ames, Iowa, U.S.A.

E.W. Anderson, H. Chakir, J.M. Hauptman, J. Lamsa

Johns Hopkins University, Baltimore, Maryland, U.S.A.

B.A. Barnett, B. Blumenfeld, C.Y. Chien, G. Giurgiu, A. Gritsan, D.W. Kim, C.K. Lae, P. Maksi-movic, M. Swartz, N. Tran

The University of Kansas, Lawrence, Kansas, U.S.A.

P. Baringer, A. Bean, J. Chen, D. Coppage, O. Grachov, M. Murray, V. Radicci, J.S. Wood, V. Zhukova

Kansas State University, Manhattan, Kansas, U.S.A.

D. Bandurin, T. Bolton, K. Kaadze, W.E. Kahl, Y. Maravin, D. Onoprienko, R. Sidwell, Z. Wan

Lawrence Livermore National Laboratory, Livermore, California, U.S.A.

B. Dahmes, J. Gronberg, J. Hollar, D. Lange, D. Wright, C.R. Wuest

University of Maryland, College Park, Maryland, U.S.A.

D. Baden, R. Bard, S.C. Eno, D. Ferencek, N.J. Hadley, R.G. Kellogg, M. Kirn, S. Kunori, E. Lockner, F. Ratnikov, F. Santanastasio, A. Skuja, T. Toole, L. Wang, M. Wetstein

Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A.

B. Alver, M. Ballintijn, G. Bauer, W. Busza, G. Gomez Ceballos, K.A. Hahn, P. Harris, M. Klute, I. Kravchenko, W. Li, C. Loizides, T. Ma, S. Nahm, C. Paus, S. Pavlon, J. Piedra Gomez, C. Roland, G. Roland, M. Rudolph, G. Stephans, K. Sumorok, S. Vaurynovich, E.A. Wenger, B. Wyslouch

University of Minnesota, Minneapolis, Minnesota, U.S.A.

D. Bailleux, S. Cooper, P. Cushman, A. De Benedetti, A. Dolgopolov, P.R. Dudero, R. Egeland, G. Franzoni, W.J. Gilbert, D. Gong, J. Grahl, J. Haupt, K. Klapoetke, I. Kronkvist, Y. Kubota, J. Mans, R. Rusack, S. Sengupta, B. Sherwood, A. Singovsky, P. Vikas, J. Zhang

University of Mississippi, University, Mississippi, U.S.A.

M. Boone, L.M. Cremaldi, R. Godang, R. Kroeger, M. Reep, J. Reidy, D.A. Sanders, P. Sonnek, D. Summers, S. Watkins

University of Nebraska-Lincoln, Lincoln, Nebraska, U.S.A.

K. Bloom, B. Bockelman, D.R. Claes, A. Dominguez, M. Eads, M. Furukawa, J. Keller, T. Kelly, C. Lundstedt, S. Malik, G.R. Snow, D. Swanson

State University of New York at Buffalo, Buffalo, New York, U.S.A.

K.M. Ecklund, I. Iashvili, A. Kharchilava, A. Kumar, M. Strang

Northeastern University, Boston, Massachusetts, U.S.A.

G. Alverson, E. Barberis, O. Boeriu, G. Eulisse, T. McCauley, Y. Musienko,⁴⁶ S. Muzaffar, I. Osborne, S. Reucroft, J. Swain, L. Taylor, L. Tuura

Northwestern University, Evanston, Illinois, U.S.A.

B. Gobbi, M. Kubantsev, A. Kubik, R.A. Ofierzynski, M. Schmitt, E. Spencer, S. Stoynev, M. Szleper, M. Velasco, S. Won

University of Notre Dame, Notre Dame, Indiana, U.S.A.

K. Andert, B. Baumbaugh, B.A. Beiersdorf, L. Castle, J. Chorny, A. Goussiou, M. Hildreth, C. Jessop, D.J. Karmgard, T. Kolberg, J. Marchant, N. Marinelli, M. McKenna, R. Ruchti, M. Vigneault, M. Wayne, D. Wiand

The Ohio State University, Columbus, Ohio, U.S.A.

B. Bylsma, L.S. Durkin, J. Gilmore, J. Gu, P. Killewald, T.Y. Ling, C.J. Rush, V. Sehgal, G. Williams

Princeton University, Princeton, New Jersey, U.S.A.

N. Adam, S. Chidzik, P. Denes,⁴⁷ P. Elmer, A. Garmash, D. Gerbaudo, V. Halyo, J. Jones, D. Marlow, J. Olsen, P. Piroué, D. Stickland, C. Tully, J.S. Werner, T. Wildish, S. Wynhoff,* Z. Xie

University of Puerto Rico, Mayaguez, Puerto Rico, U.S.A.

X.T. Huang, A. Lopez, H. Mendez, J.E. Ramirez Vargas, A. Zatserklyaniy

Purdue University, West Lafayette, Indiana, U.S.A.

A. Apresyan, K. Arndt, V.E. Barnes, G. Bolla, D. Bortoletto, A. Bujak, A. Everett, M. Fahling, A.F. Garfinkel, L. Gutay, N. Ippolito, Y. Kozhevnikov,¹ A.T. Laasanen, C. Liu, V. Maroussov, S. Medved, P. Merkel, D.H. Miller, J. Miyamoto, N. Neumeister, A. Pompos, A. Roy, A. Sedov, I. Shipsey

Purdue University Calumet, Hammond, Indiana, U.S.A.

V. Cuplov, N. Parashar

Rice University, Houston, Texas, U.S.A.

P. Bargassa, S.J. Lee, J.H. Liu, D. Maronde, M. Matveev, T. Nussbaum, B.P. Padley, J. Roberts, A. Tumanov

University of Rochester, Rochester, New York, U.S.A.

A. Bodek, H. Budd, J. Cammin, Y.S. Chung, P. De Barbaro,¹ R. Demina, G. Ginther, Y. Gotra, S. Korjenevski, D.C. Miner, W. Sakumoto, P. Slattery, M. Zielinski

The Rockefeller University, New York, New York, U.S.A.

A. Bhatti, L. Demortier, K. Goulianatos, K. Hatakeyama, C. Mesropian

Rutgers, the State University of New Jersey, Piscataway, New Jersey, U.S.A.

E. Bartz, S.H. Chuang, J. Doroshenko, E. Halkiadakis, P.F. Jacques, D. Khits, A. Lath, A. Macpherson,¹ R. Plano, K. Rose, S. Schnetzer, S. Somalwar, R. Stone, T.L. Watts

University of Tennessee, Knoxville, Tennessee, U.S.A.

G. Cerizza, M. Hollingsworth, J. Lazoflores, G. Ragghianti, S. Spanier, A. York

Texas A&M University, College Station, Texas, U.S.A.

A. Aurisano, A. Golyash, T. Kamon, C.N. Nguyen, J. Pivarski, A. Safonov, D. Toback, M. Weinberger

Texas Tech University, Lubbock, Texas, U.S.A.

N. Akchurin, L. Berntzon, K.W. Carrell, K. Gumus, C. Jeong, H. Kim, S.W. Lee, B.G. Mc Gonagill, Y. Roh, A. Sill, M. Spezziga, R. Thomas, I. Volobouev, E. Washington, R. Wigmans, E. Yazgan

Vanderbilt University, Nashville, Tennessee, U.S.A.

T. Bapty, D. Engh, C. Florez, W. Johns, T. Keskinpala, E. Luiggi Lopez, S. Neema, S. Nordstrom, S. Pathak, P. Sheldon

University of Virginia, Charlottesville, Virginia, U.S.A.

D. Andelin, M.W. Arenton, M. Balazs, M. Buehler, S. Conetti, B. Cox, R. Hirosky, M. Humphrey, R. Imlay, A. Ledovskoy, D. Phillips II, H. Powell, M. Ronquest, R. Yohay

University of Wisconsin, Madison, Wisconsin, U.S.A.

M. Anderson, Y.W. Baek, J.N. Bellinger, D. Bradley, P. Cannarsa, D. Carlsmith, I. Crotty,¹ S. Dasu, F. Feyzi, T. Gorski, L. Gray, K.S. Grogg, M. Grothe, M. Jaworski, P. Klabbers, J. Klukas, A. Lanaro, C. Lazaridis, J. Leonard, R. Loveless, M. Magrans de Abril, A. Mohapatra, G. Ott, W.H. Smith, M. Weinberg, D. Wenman

Yale University, New Haven, Connecticut, U.S.A.

G.S. Atoian, S. Dhawan, V. Issakov, H. Neal, A. Pobladuev, M.E. Zeller

Institute of Nuclear Physics of the Uzbekistan Academy of Sciences, Ulugbek, Tashkent, Uzbekistan

G. Abdullaeva, A. Avezov, M.I. Fazylov, E.M. Gasanov, A. Khugaev, Y.N. Koblik, M. Nishonov, K. Olimov, A. Umaraliev, B.S. Yuldashev

¹Also at CERN, European Organization for Nuclear Research, Geneva, Switzerland

²Now at Universidade Federal do ABC, Santo Andre, Brazil

³Now at Laboratoire de l'Accélérateur Linéaire, Orsay, France

⁴Now at CERN, European Organization for Nuclear Research, Geneva, Switzerland

⁵Also at Université de Haute-Alsace, Mulhouse, France

⁶Also at Université Louis Pasteur, Strasbourg, France

⁷Also at Moscow State University, Moscow, Russia

⁸Also at Institute of Nuclear Research ATOMKI, Debrecen, Hungary

⁹Also at University of California, San Diego, La Jolla, U.S.A.

¹⁰Also at Tata Institute of Fundamental Research - HECR, Mumbai, India

¹¹Also at University of Visva-Bharati, Santiniketan, India

¹²Also at University of California, Riverside, Riverside, U.S.A.

¹³Also at Centro Studi Enrico Fermi, Roma, Italy

¹⁴Also at ENEA - Casaccia Research Center, S. Maria di Galeria, Italy

¹⁵Now at Università del Piemonte Orientale, Novara, Italy

- ¹⁶Also at Warsaw University of Technology, Institute of Electronic Systems,
Warsaw, Poland
- ¹⁷Also at Fermi National Accelerator Laboratory, Batavia, U.S.A.
- ¹⁸Also at California Institute of Technology, Pasadena, U.S.A.
- ¹⁹Also at University of Minnesota, Minneapolis, U.S.A.
- ²⁰Also at Institute for Particle Physics, ETH Zurich, Zurich, Switzerland
- ²¹Also at Faculty of Physics of University of Belgrade, Belgrade, Serbia
- ²²Now at Instituto de Física de Cantabria (IFCA), CSIC-Universidad de Cantabria,
Santander, Spain
- ²³Also at Institut für Experimentelle Kernphysik, Karlsruhe, Germany
- ²⁴Also at National Centre for Physics, Quaid-I-Azam University, Islamabad, Pakistan
- ²⁵Also at Laboratoire Leprince-Ringuet, Ecole Polytechnique, IN2P3-CNRS,
Palaiseau, France
- ²⁶Also at Alstom Contracting, Geneve, Switzerland
- ²⁷Also at Scuola Normale Superiore and Sezione INFN, Pisa, Italy
- ²⁸Also at University of Athens, Athens, Greece
- ²⁹Also at Institute of High Energy Physics and Informatization, Tbilisi State University,
Tbilisi, Georgia
- ³⁰Also at Institute for Theoretical and Experimental Physics, Moscow, Russia
- ³¹Also at Central Laboratory of Mechatronics and Instrumentation, Sofia, Bulgaria
- ³²Also at Paul Scherrer Institut, Villigen, Switzerland
- ³³Also at Vinca Institute of Nuclear Sciences, Belgrade, Serbia
- ³⁴Also at Institute for Nuclear Research and Nuclear Energy, Sofia, Bulgaria
- ³⁵Also at State Research Center of Russian Federation - Institute for High Energy Physics,
Protvino, Russia
- ³⁶Also at Nigde University, Nigde, Turkey
- ³⁷Also at Mersin University, Mersin, Turkey
- ³⁸Also at Marmara University, Istanbul, Turkey
- ³⁹Also at Kafkas University, Kars, Turkey
- ⁴⁰Also at Suleyman Demirel University, Isparta, Turkey
- ⁴¹Also at Ege University, Izmir, Turkey
- ⁴²Also at Rutherford Appleton Laboratory, Didcot, United Kingdom
- ⁴³Also at KFKI Research Institute for Particle and Nuclear Physics, Budapest, Hungary
- ⁴⁴Also at University of Debrecen, Debrecen, Hungary
- ⁴⁵Also at Mugla University, Mugla, Turkey
- ⁴⁶Also at Institute for Nuclear Research, Moscow, Russia
- ⁴⁷Now at Lawrence Berkeley National Laboratory, Berkeley, U.S.A.
- ⁴⁸Now at National Institute of Physics and Nuclear Engineering, Bucharest, Romania
- ⁴⁹Also at University of Ruhuna, Matara, Sri Lanka

*Deceased

Corresponding author: Roberto Tenchini (Roberto.Tenchini@cern.ch)