



Erratum

Erratum to: Measurements of W and Z boson production in pp collisions at $\sqrt{s} = 5.02$ TeV with the ATLAS detector

ATLAS Collaboration*

CERN, 1211 Geneva 23, Switzerland

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It has been found that the theoretical predictions for W and Z boson cross sections, and for the W boson charge asymmetry, which are labelled as NNPDF3.1 [1] have in fact been calculated using the NNPDF3.0 PDF set [2] instead. The reported experimental results are not affected.

The corrected versions of Figs. 11, 12 and 13 of the paper are presented below.

The corrected text discussing the comparison of predicted cross sections to data in Sect. 9.2 of the paper should read:

A comparison of the differential cross sections shows that the predictions obtained with the NNPDF3.1 PDF set are in good agreement with the measured values, mainly because the NNPDF3.1 global fit includes high precision LHC measurements of W/Z boson production [3,4]. On the other hand, the predictions obtained with other recent PDF sets systematically deviate from the measured values.

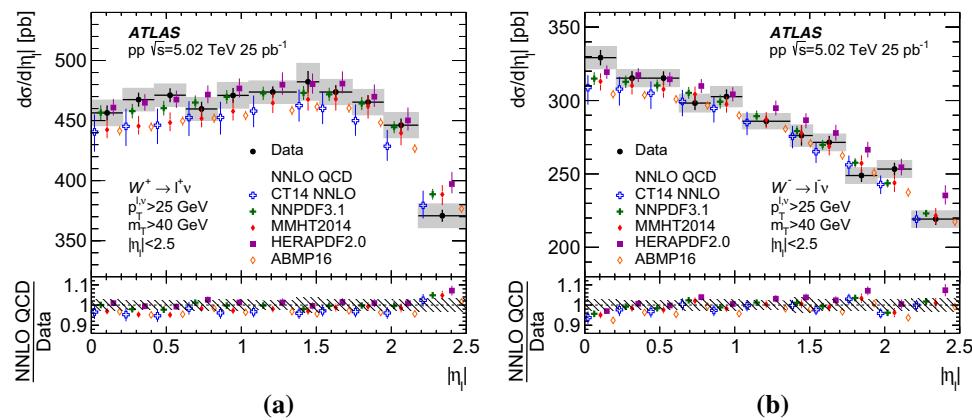


Fig. 11 Differential cross sections for **a** W^+ and **b** W^- boson production as a function of absolute decay lepton pseudorapidity compared with theoretical predictions. Statistical and systematic errors are shown as corresponding bars and shaded bands on the data points. The luminosity uncertainty is not included. Only the dominant uncertainty (PDF)

is displayed for the theory. The lower panel shows the ratio of predictions to the measured differential cross section in each bin, and the shaded band shows the sum in quadrature of statistical and systematic uncertainties of the data

The original article can be found online at <https://doi.org/10.1140/epjc/s10052-019-6622-x>.

* e-mail: atlas.publications@cern.ch

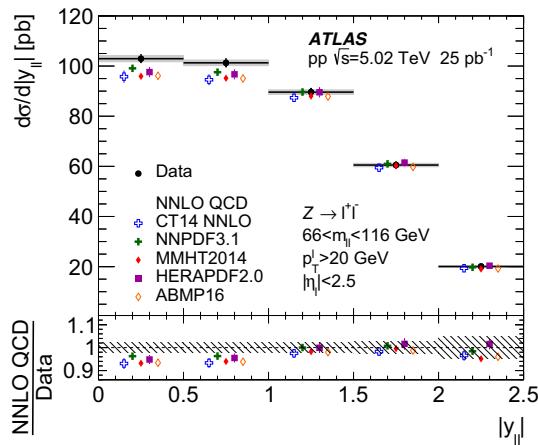


Fig. 12 Differential cross section for Z boson production as a function of absolute lepton-pair rapidity compared with theoretical predictions. Statistical and systematic errors are shown as corresponding bars and shaded bands on the data points. The luminosity uncertainty is not included. Only the dominant uncertainty (PDF) is displayed for the theory. The lower panel shows the ratio of predictions to the measured differential cross section in each bin, and the shaded band shows the sum in quadrature of statistical and systematic uncertainties of the data

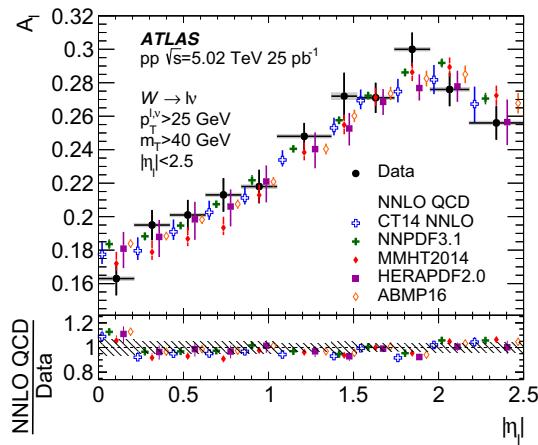


Fig. 13 Charge asymmetry for W bosons as a function of absolute decay lepton pseudorapidity compared with theoretical predictions. Statistical and systematic errors are shown as corresponding bars and shaded bands on the data points. Only the dominant uncertainty (PDF) is displayed for the theory. The lower panel shows the ratio of predictions to the measured differential cross section in each bin, and the shaded band shows the sum in quadrature of statistical and systematic uncertainties of the data

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ATLAS Collaboration

M. Aaboud^{34d}, G. Aad⁹⁹, B. Abbott¹²⁵, O. Abdinov^{13,*}, B. Abeloos¹²⁹, D. K. Abhayasinghe⁹¹, S. H. Abidi¹⁶⁴, O. S. AbouZeid³⁹, N. L. Abraham¹⁵³, H. Abramowicz¹⁵⁸, H. Abreu¹⁵⁷, Y. Abulaiti⁶, B. S. Acharya^{64a,64b,p}, S. Adachi¹⁶⁰, L. Adamczyk^{81a}, J. Adelman¹¹⁹, M. Adersberger¹¹², A. Adiguzel^{12c,aj}, T. Adye¹⁴¹, A. A. Affolder¹⁴³, Y. Afik¹⁵⁷, C. Agheorghiesei^{27c}, J. A. Aguilar-Saavedra^{137a,137f,ai}, F. Ahmadov^{77,ag}, G. Aielli^{71a,71b}, S. Akatsuka⁸³, T. P. A. Åkesson⁹⁴, E. Akilli⁵², A. V. Akimov¹⁰⁸, G. L. Alberghi^{23a,23b}, J. Albert¹⁷³, P. Albicocco⁴⁹, M. J. Alconada Verzini⁸⁶, S. Alderweireldt¹¹⁷, M. Aleksa³⁵, I. N. Aleksandrov⁷⁷, C. Alexa^{27b}, T. Alexopoulos¹⁰, M. Alhroob¹²⁵, B. Ali¹³⁹, G. Alimonti^{66a}, J. Alison³⁶, S. P. Alkire¹⁴⁵, C. Allaire¹²⁹, B. M. M. Allbrooke¹⁵³, B. W. Allen¹²⁸, P. P. Allport²¹, A. Aloisio^{67a,67b}, A. Alonso³⁹, F. Alonso⁸⁶, C. Alpigiani¹⁴⁵, A. A. Alshehri⁵⁵, M. I. Alstaty⁹⁹, B. Alvarez Gonzalez³⁵, D. Álvarez Piqueras¹⁷¹, M. G. Alvaggi^{67a,67b}, B. T. Amadio¹⁸, Y. Amaral Coutinho^{78b}, L. Ambroz¹³², C. Amelung²⁶, D. Amidei¹⁰³, S. P. Amor Dos Santos^{137a,137c}, S. Amoroso⁴⁴, C. S. Amrouche⁵², C. Anastopoulos¹⁴⁶, L. S. Ancu⁵², N. Andari¹⁴², T. Andeen¹¹, C. F. Anders^{59b}, J. K. Anders²⁰, K. J. Anderson³⁶, A. Andreazza^{66a,66b}, V. Andrei^{59a}, C. R. Anelli¹⁷³, S. Angelidakis³⁷, I. Angelozzi¹¹⁸, A. Angerami³⁸, A. V. Anisenkov^{120a,120b}, A. Annovi^{69a}, C. Antel^{59a}, M. T. Anthony¹⁴⁶, M. Antonelli⁴⁹, D. J. A. Antrim¹⁶⁸, F. Anulli^{70a}, M. Aoki⁷⁹, J. A. Aparisi Pozo¹⁷¹, L. Aperio Bella³⁵, G. Arabidze¹⁰⁴, J. P. Araque^{137a}, V. Araujo Ferraz^{78b}, R. Araujo Pereira^{78b}, A. T. H. Arce⁴⁷, R. E. Ardell⁹¹, F. A. Arduh⁸⁶, J.-F. Arguin¹⁰⁷, S. Argyropoulos⁷⁵, A. J. Armbruster³⁵, L. J. Armitage⁹⁰, A. Armstrong¹⁶⁸, O. Arnaez¹⁶⁴, H. Arnold¹¹⁸, M. Arratia³¹, O. Arslan²⁴, A. Artamonov^{109,*}, G. Artoni¹³², S. Artz⁹⁷, S. Asai¹⁶⁰, N. Asbah⁵⁷, E. M. Asimakopoulou¹⁶⁹, L. Asquith¹⁵³, K. Assamagan²⁹, R. Astalos^{28a}, R. J. Atkin^{32a}, M. Atkinson¹⁷⁰, N. B. Atlay¹⁴⁸, K. Augsten¹³⁹, G. Avolio³⁵, R. Avramidou^{58a}, M. K. Ayoub^{15a}, G. Azuelos^{107,av}, A. E. Baas^{59a}, M. J. Baca²¹, H. Bachacou¹⁴², K. Bachas^{65a,65b}, M. Backes¹³², P. Bagnaia^{70a,70b}, M. Bahmani⁸², H. Bahrasemani¹⁴⁹, A. J. Bailey¹⁷¹, J. T. Baines¹⁴¹, M. Bajic³⁹, C. Bakalis¹⁰, O. K. Baker¹⁸⁰, P. J. Bakker¹¹⁸, D. Bakshi Gupta⁹³, E. M. Baldwin^{120a,120b}, P. Balek¹⁷⁷, F. Balli¹⁴², W. K. Balunas¹³⁴, J. Balz⁹⁷, E. Banas⁸², A. Bandyopadhyay²⁴, S. Banerjee^{178,l}, A. A. E. Bannoura¹⁷⁹, L. Barak¹⁵⁸, W. M. Barbe³⁷, E. L. Barberio¹⁰², D. Barberis^{53a,53b}, M. Barbero⁹⁹, T. Barillari¹¹³, M.-S. Barisits³⁵, J. Barkeloo¹²⁸, T. Barklow¹⁵⁰, R. Barnea¹⁵⁷, S. L. Barnes^{58c}, B. M. Barnett¹⁴¹, R. M. Barnett¹⁸, Z. Barnovska-Blenessy^{58a}, A. Baroncelli^{72a}, G. Barone²⁶, A. J. Barr¹³², L. Barranco Navarro¹⁷¹, F. Barreiro⁹⁶, J. Barreiro Guimarães da Costa^{15a}, R. Bartoldus¹⁵⁰, A. E. Barton⁸⁷, P. Bartos^{28a}, A. Basalaev¹³⁵, A. Bassalat¹²⁹, R. L. Bates⁵⁵, S. J. Batista¹⁶⁴, S. Battaloumous^{34e}, J. R. Batley³¹, M. Battaglia¹⁴³, M. Baucé^{70a,70b}, F. Bauer¹⁴², K. T. Bauer¹⁶⁸, H. S. Bawa^{150,n}, J. B. Beacham¹²³, T. Beau¹³³, P. H. Beauchemin¹⁶⁷, P. Bechtle²⁴, H. C. Beck⁵¹, H. P. Beck^{20,s}, K. Becker⁵⁰, M. Becker⁹⁷, C. Becot⁴⁴, A. Beddall^{12d}, A. J. Beddall^{12a}, V. A. Bednyakov⁷⁷, M. Bedognetti¹¹⁸, C. P. Bee¹⁵², T. A. Beermann³⁵, M. Begalli^{78b}, M. Begel²⁹, A. Behera¹⁵², J. K. Behr⁴⁴, A. S. Bell⁹², G. Bella¹⁵⁸, L. Bellagamba^{23b}, A. Bellerive³³, M. Bellomo¹⁵⁷, P. Bellos⁹, K. Belotskiy¹¹⁰, N. L. Belyaev¹¹⁰, O. Benary^{158,*}, D. Benchekroun^{34a}, M. Bender¹¹², N. Benekos¹⁰, Y. Benhammou¹⁵⁸, E. Benhar Noccioli¹⁸⁰, J. Benitez⁷⁵, D. P. Benjamin⁴⁷, M. Benoit⁵², J. R. Bensinger²⁶, S. Bentvelsen¹¹⁸, L. Beresford¹³², M. Beretta⁴⁹, D. Berge⁴⁴, E. Bergeaas Kuutmann¹⁶⁹, N. Berger⁵, L. J. Bergsten²⁶, J. Beringer¹⁸, S. Berlendis⁷, N. R. Bernard¹⁰⁰, G. Bernardi¹³³, C. Bernius¹⁵⁰, F. U. 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Burch¹¹⁹, S. Burdin⁸⁸, C. D. Burgard¹¹⁸, A. M. Burger⁵, B. Burghgrave¹¹⁹, K. Burk⁸², S. Burke¹⁴¹, I. Burmeister⁴⁵, J. T. P. Burr¹³², V. Büscher⁹⁷, E. Buschmann⁵¹, P. Bussey⁵⁵, J. M. Butler²⁵, C. M. Buttar⁵⁵, J. M. Butterworth⁹², P. Butti³⁵,

- W. Buttlinger³⁵, A. Buzatu¹⁵⁵, A. R. Buzykaev^{120a,120b}, G. Cabras^{23a,23b}, S. Cabrera Urbán¹⁷¹, D. Caforio¹³⁹, H. Cai¹⁷⁰, V. M. M. Cairo², O. Cakir^{4a}, N. Calace⁵², P. Calafiura¹⁸, A. Calandri⁹⁹, G. Calderini¹³³, P. Calfayan⁶³, G. Callea^{40a,40b}, L. P. Caloba^{78b}, S. Calvente Lopez⁹⁶, D. Calvet³⁷, S. Calvet³⁷, T. P. Calvet¹⁵², M. Calvetti^{69a,69b}, R. Camacho Toro¹³³, S. Camarda³⁵, P. Camarri^{71a,71b}, D. Cameron¹³¹, R. Caminal Armadans¹⁰⁰, C. Camincher³⁵, S. Campana³⁵, M. Campanelli⁹², A. Camplani³⁹, A. Campoverde¹⁴⁸, V. Canale^{67a,67b}, M. Cano Bret^{58c}, J. Cantero¹²⁶, T. Cao¹⁵⁸, Y. Cao¹⁷⁰, M. D. M. Capeans Garrido³⁵, I. Caprini^{27b}, M. Caprini^{27b}, M. Capua^{40a,40b}, R. M. Carbone³⁸, R. Cardarelli^{71a}, F. C. Cardillo¹⁴⁶, I. Carli¹⁴⁰, T. Carli³⁵, G. Carlino^{67a}, B. T. Carlson¹³⁶, L. Carminati^{66a,66b}, R. M. D. Carney^{43a,43b}, S. Caron¹¹⁷, E. Carquin^{144b}, S. Carrá^{66a,66b}, G. D. Carrillo-Montoya³⁵, D. Casadei^{32b}, M. P. Casado^{14,g}, A. F. Casha¹⁶⁴, D. W. Casper¹⁶⁸, R. Castelijn¹¹⁸, F. L. Castillo¹⁷¹, V. Castillo Gimenez¹⁷¹, N. F. Castro^{137a,137e}, A. Catinaccio³⁵, J. R. Catmore¹³¹, A. Cattai³⁵, J. Caudron²⁴, V. Cavaliere²⁹, E. Cavallaro¹⁴, D. Cavalli^{66a}, M. Cavalli-Sforza¹⁴, V. Cavasinni^{69a,69b}, E. Celebi^{12b}, F. Ceradini^{72a,72b}, L. Cerdà Alberich¹⁷¹, A. S. Cerqueira^{78a}, A. Cerri¹⁵³, L. Cerrito^{71a,71b}, F. Cerutti¹⁸, A. Cervelli^{23a,23b}, S. A. Cetin^{12b}, A. Chafaq^{34a}, D. Chakraborty¹¹⁹, S. K. Chan⁵⁷, W. S. Chan¹¹⁸, Y. L. Chan^{61a}, J. D. Chapman³¹, B. Chargeishvili^{156b}, D. G. Charlton²¹, C. C. Chau³³, C. A. Chavez Barajas¹⁵³, S. Che¹²³, A. Chegwidden¹⁰⁴, S. Chekanov⁶, S. V. Chekulaev^{165a}, G. A. Chelkov^{77,au}, M. A. Chelstowska³⁵, C. Chen^{58a}, C. H. Chen⁷⁶, H. Chen²⁹, J. Chen^{58a}, J. Chen³⁸, S. Chen¹³⁴, S. J. Chen^{15c}, X. Chen^{15b,at}, Y. Chen⁸⁰, Y.-H. Chen⁴⁴, H. C. Cheng¹⁰³, H. J. Cheng^{15d}, A. Cheplakov⁷⁷, E. Cheremushkina¹²¹, R. Cherkaoui El Moursli^{34e}, E. Cheu⁷, K. Cheung⁶², L. Chevalier¹⁴², V. Chiarella⁴⁹, G. Chiarella^{69a}, G. Chiodini^{65a}, A. S. Chisholm^{35,21}, A. Chitan^{27b}, I. Chiu¹⁶⁰, Y. H. Chiu¹⁷³, M. V. Chizhov⁷⁷, K. Choi⁶³, A. R. Chomont¹²⁹, S. Chouridou¹⁵⁹, Y. S. Chow¹¹⁸, V. Christodoulou⁹², M. C. Chu^{61a}, J. Chudoba¹³⁸, A. J. Chuinard¹⁰¹, J. J. Chwastowski⁸², L. Chytka¹²⁷, D. Cinca⁴⁵, V. Cindro⁸⁹, I. A. Cioara²⁴, A. Ciocio¹⁸, F. Cirotto^{67a,67b}, Z. H. Citron¹⁷⁷, M. Citterio^{66a}, A. Clark⁵², M. R. Clark³⁸, P. J. Clark⁴⁸, C. Clement^{43a,43b}, Y. Coadou⁹⁹, M. Cobal^{64a,64c}, A. Coccaro^{53a,53b}, J. Cochran⁷⁶, H. Cohen¹⁵⁸, A. E. C. Coimbra¹⁷⁷, L. Colasurdo¹¹⁷, B. Cole³⁸, A. P. Colijn¹¹⁸, J. Collot⁵⁶, P. Conde Muiño^{137a,i}, E. Coniavitis⁵⁰, S. H. Connell^{32b}, I. A. Connnelly⁹⁸, S. Constantinescu^{27b}, F. Conventi^{67a,aw}, A. M. Cooper-Sarkar¹³², F. Cormier¹⁷², K. J. R. Cormier¹⁶⁴, L. D. Corpe⁹², M. Corradi^{70a,70b}, E. E. Corrigan⁹⁴, F. Corriveau^{101,ae}, A. Cortes-Gonzalez³⁵, M. J. Costa¹⁷¹, F. Costanza⁵, D. Costanzo¹⁴⁶, G. Cottin³¹, G. Cowan⁹¹, B. E. Cox⁹⁸, J. Crane⁹⁸, K. Cranmer¹²², S. J. Crawley⁵⁵, R. A. Creager¹³⁴, G. Cree³³, S. Crépé-Renaudin⁵⁶, F. Crescioli¹³³, M. Cristinziani²⁴, V. Croft¹²², G. Crosetti^{40a,40b}, A. Cueto⁹⁶, T. Cuhadar Donszelmann¹⁴⁶, A. R. Cukierman¹⁵⁰, S. Czekierda⁸², P. Czodrowski³⁵, M. J. Da Cunha Sargedas De Sousa^{58b}, C. Da Via⁹⁸, W. Dabrowski^{81a}, T. Dado^{28a,z}, S. Dahbi^{34e}, T. Dai¹⁰³, F. Dallaire¹⁰⁷, C. Dallapiccola¹⁰⁰, M. Dam³⁹, G. D'amen^{23a,23b}, J. Damp⁹⁷, J. R. Dandoy¹³⁴, M. F. Daneri³⁰, N. P. Dang^{178,1}, N. D. Dann⁹⁸, M. Danninger¹⁷², V. Dao³⁵, G. Darbo^{53b}, S. Darmora⁸, O. Dartsi⁵, A. Dattagupta¹²⁸, T. Daubney⁴⁴, S. D'Auria⁵⁵, W. Davey²⁴, C. David⁴⁴, T. Davidek¹⁴⁰, D. R. Davis⁴⁷, E. Dawe¹⁰², I. Dawson¹⁴⁶, K. De⁸, R. De Asmundis^{67a}, A. De Benedetti¹²⁵, M. De Beurs¹¹⁸, S. De Castro^{23a,23b}, S. De Cecco^{70a,70b}, N. De Groot¹¹⁷, P. de Jong¹¹⁸, H. De la Torre¹⁰⁴, F. De Lorenzi⁷⁶, A. De Maria^{51,u}, D. De Pedis^{70a}, A. De Salvo^{70a}, U. De Sanctis^{71a,71b}, M. De Santis^{71a,71b}, A. De Santo¹⁵³, K. De Vasconcelos Corga⁹⁹, J. B. De Vivie De Regie¹²⁹, C. Debenedetti¹⁴³, D. V. Dedovich⁷⁷, N. Dehghanian³, M. Del Gaudio^{40a,40b}, J. Del Peso⁹⁶, Y. Delabat Diaz⁴⁴, D. Delgove¹²⁹, F. Deliot¹⁴², C. M. Delitzsch⁷, M. Della Pietra^{67a,67b}, D. Della Volpe⁵², A. Dell'Acqua³⁵, L. Dell'Asta²⁵, M. Delmastro⁵, C. Delporte¹²⁹, P. A. Delsart⁵⁶, D. A. DeMarco¹⁶⁴, S. Demers¹⁸⁰, M. Demichev⁷⁷, S. P. Denisov¹²¹, D. Denysiuk¹¹⁸, L. D'Eramo¹³³, D. Derendarz⁸², J. E. Derkaoui^{34d}, F. Derue¹³³, P. Dervan⁸⁸, K. Desch²⁴, C. Deterre⁴⁴, K. Dette¹⁶⁴, M. R. Devesa³⁰, P. O. Deviveiros³⁵, A. Dewhurst¹⁴¹, S. Dhaliwal²⁶, F. A. Di Bello⁵², A. Di Ciaccio^{71a,71b}, L. Di Ciaccio⁵, W. K. Di Clemente¹³⁴, C. Di Donato^{67a,67b}, A. Di Girolamo³⁵, B. Di Micco^{72a,72b}, R. Di Nardo¹⁰⁰, K. F. Di Petrillo⁵⁷, R. Di Sipio¹⁶⁴, D. Di Valentino³³, C. Diaconu⁹⁹, M. Diamond¹⁶⁴, F. A. Dias³⁹, T. Dias Do Vale^{137a}, M. A. Diaz^{144a}, J. Dickinson¹⁸, E. B. Diehl¹⁰³, J. Dietrich¹⁹, S. Díez Cornell⁴⁴, A. Dimitrieva¹⁸, J. Dingfelder²⁴, F. Dittus³⁵, F. Djama⁹⁹, T. Djobava^{156b}, J. I. Djuvsland^{59a}, M. A. B. Do Vale^{78c}, M. Dobre^{27b}, D. Dodsworth²⁶, C. Doglioni⁹⁴, J. Dolejsi¹⁴⁰, Z. Dolezal¹⁴⁰, M. Donadelli^{78d}, J. Domini³⁷, A. D'onofrio⁹⁰, M. D'Onofrio⁸⁸, J. Dopke¹⁴¹, A. Doria^{67a}, M. T. Dova⁸⁶, A. T. Doyle⁵⁵, E. Drechsler⁵¹, E. Dreyer¹⁴⁹, T. Dreyer⁵¹, Y. Du^{58b}, F. Dubinin¹⁰⁸, M. Dubovsky^{28a}, A. Dubreuil⁵², E. Duchovni¹⁷⁷, G. Duckeck¹¹², A. Ducourthial¹³³, O. A. Ducu^{107,y}, D. Duda¹¹³, A. Dudarev³⁵, A. C. Dudder⁹⁷, E. M. Duffield¹⁸, L. Duflot¹²⁹, M. Dührssen³⁵, C. Dülsen¹⁷⁹, M. Dumancic¹⁷⁷, A. E. Dumitriu^{27b,e}, A. K. Duncan⁵⁵, M. Dunford^{59a}, A. Duperrin⁹⁹, H. Duran Yildiz^{4a}, M. Düren⁵⁴, A. Durglishvili^{156b}, D. Duschinger⁴⁶, B. Dutta⁴⁴, D. Duvnjak¹, M. Dyndal⁴⁴, S. Dysch⁹⁸, B. S. Dziedzic⁸², C. Eckardt⁴⁴, K. M. Ecker¹¹³, R. C. Edgar¹⁰³, T. Eifert³⁵, G. Eigen¹⁷, K. Einsweiler¹⁸, T. Ekelof¹⁶⁹, M. El Kacimi^{34c}, R. El Kosseifi⁹⁹, V. Ellajosyula⁹⁹, M. Ellert¹⁶⁹, F. Ellinghaus¹⁷⁹, A. A. Elliot⁹⁰, N. Ellis³⁵, J. Elmsheuser²⁹, M. Elsing³⁵, D. Emeliyanov¹⁴¹, Y. Enari¹⁶⁰, J. S. Ennis¹⁷⁵, M. B. Epland⁴⁷, J. Erdmann⁴⁵, A. Ereditato²⁰, S. Errede¹⁷⁰, M. Escalier¹²⁹, C. Escobar¹⁷¹, O. Estrada Pastor¹⁷¹, A. I. Etienne¹⁴², E. Etzion¹⁵⁸, H. Evans⁶³, A. Ezhilov¹³⁵, M. Ezzi^{34e}, F. Fabbri⁵⁵, L. Fabbri^{23a,23b}, V. Fabiani¹¹⁷, G. Facini⁹², R. M. Faisca Rodrigues Pereira^{137a}, R. M. Fakhruddinov¹²¹, S. Falciano^{70a}, P. J. Falke⁵,

- S. Falke⁵, J. Faltova¹⁴⁰, Y. Fang^{15a}, M. Fanti^{66a,66b}, A. Farbin⁸, A. Farilla^{72a}, E. M. Farina^{68a,68b}, T. Farooque¹⁰⁴, S. Farrell¹⁸, S. M. Farrington¹⁷⁵, P. Farthouat³⁵, F. Fassi^{34e}, P. Fassnacht³⁵, D. Fassouliotis⁹, M. Faucci Giannelli⁴⁸, A. Favareto^{53a,53b}, W. J. Fawcett³¹, L. Fayard¹²⁹, O. L. Fedin^{135,q}, W. Fedorko¹⁷², M. Feickert⁴¹, S. Feigl¹³¹, L. Feligioni⁹⁹, C. Feng^{58b}, E. J. Feng³⁵, M. Feng⁴⁷, M. J. Fenton⁵⁵, A. B. Fenyuk¹²¹, L. Feremenga⁸, J. Ferrando⁴⁴, A. Ferrari¹⁶⁹, P. Ferrari¹¹⁸, R. Ferrari^{68a}, D. E. Ferreira de Lima^{59b}, A. Ferrer¹⁷¹, D. Ferrere⁵², C. Ferretti¹⁰³, F. Fiedler⁹⁷, A. Filipčič⁸⁹, F. Filthaut¹¹⁷, K. D. Finelli²⁵, M. C. N. Fiolhais^{137a,137c,a}, L. Fiorini¹⁷¹, C. Fischer¹⁴, W. C. Fisher¹⁰⁴, N. Flaschel⁴⁴, I. Fleck¹⁴⁸, P. Fleischmann¹⁰³, R. R. M. Fletcher¹³⁴, T. Flick¹⁷⁹, B. M. Flierl¹¹², L. M. Flores¹³⁴, L. R. Flores Castillo^{61a}, F. M. Follega^{73a,73b}, N. Fomin¹⁷, G. T. Forcolin⁹⁸, A. Formica¹⁴², F. A. Förster¹⁴, A. C. Forti⁹⁸, A. G. Foster²¹, D. Fournier¹²⁹, H. Fox⁸⁷, S. Fracchia¹⁴⁶, P. Francavilla^{69a,69b}, M. Franchini^{23a,23b}, S. Franchino^{59a}, D. Francis³⁵, L. Franconi¹³¹, M. Franklin⁵⁷, M. Frate¹⁶⁸, M. Fraternali^{68a,68b}, A. N. Fray⁹⁰, D. Freeborn⁹², S. M. Fressard-Batraneanu³⁵, B. Freund¹⁰⁷, W. S. Freund^{78b}, D. C. Frizzell¹²⁵, D. Froidevaux³⁵, J. A. Frost¹³², C. Fukunaga¹⁶¹, E. Fullana Torregrosa¹⁷¹, T. Fusayasu¹¹⁴, J. Fuster¹⁷¹, O. Gabizon¹⁵⁷, A. Gabrielli^{23a,23b}, A. Gabrielli¹⁸, G. P. Gach^{81a}, S. Gadatsch⁵², P. Gadow¹¹³, G. Gagliardi^{53a,53b}, L. G. Gagnon¹⁰⁷, C. Galea^{27b}, B. Galhardo^{137a,137c}, E. J. Gallas¹³², B. J. Gallop¹⁴¹, P. Gallus¹³⁹, G. Galster³⁹, R. Gamboa Goni⁹⁰, K. K. Gan¹²³, S. Ganguly¹⁷⁷, J. Gao^{58a}, Y. Gao⁸⁸, Y. S. Gao^{150,n}, C. García¹⁷¹, J. E. García Navarro¹⁷¹, J. A. García Pascual^{15a}, M. Garcia-Sciveres¹⁸, R. W. Gardner³⁶, N. Garelli¹⁵⁰, V. Garonne¹³¹, K. Gasnikova⁴⁴, A. Gaudiello^{53a,53b}, G. Gaudio^{68a}, I. L. Gavrilenco¹⁰⁸, A. Gavril'yuk¹⁰⁹, C. Gay¹⁷², G. Gaycken²⁴, E. N. Gazis¹⁰, C. N. P. Gee¹⁴¹, J. Geisen⁵¹, M. Geisen⁹⁷, M. P. Geisler^{59a}, K. Gellerstedt^{43a,43b}, C. Gemme^{53b}, M. H. Genest⁵⁶, C. Geng¹⁰³, S. Gentile^{70a,70b}, S. George⁹¹, D. Gerbaudo¹⁴, G. Gessner⁴⁵, S. Ghasemi¹⁴⁸, M. Ghasemi Bostanabad¹⁷³, M. Ghneimat²⁴, B. Giacobbe^{23b}, S. Giagu^{70a,70b}, N. Giangiacomi^{23a,23b}, P. Giannetti^{69a}, A. Giannini^{67a,67b}, S. M. Gibson⁹¹, M. Gignac¹⁴³, D. Gillberg³³, G. Gilles¹⁷⁹, D. M. Gingrich^{3,av}, M. P. Giordani^{64a,64c}, F. M. Giorgi^{23b}, P. F. Giraud¹⁴², P. Giromini⁵⁷, G. Giugliarelli^{64a,64c}, D. Giugni^{66a}, F. Giulii¹³², M. Giulini^{59b}, S. Gkaitatzis¹⁵⁹, I. Gkialas^{9,k}, E. L. Gkougkousis¹⁴, P. Gkountoumis¹⁰, L. K. Gladilin¹¹¹, C. Glasman⁹⁶, J. Glatzer¹⁴, P. C. F. Glashoff⁴⁴, A. Glazov⁴⁴, M. Goblirsch-Kolb²⁶, J. Godlewski⁸², S. Goldfarb¹⁰², T. Golling⁵², D. Golubkov¹²¹, A. Gomes^{137a,137b}, R. Goncalves Gama^{78a}, R. Gonçalo^{137a}, G. Gonella⁵⁰, L. Gonella²¹, A. Gongadze⁷⁷, F. Gonnella²¹, J. L. Gonski⁵⁷, S. González de la Hoz¹⁷¹, S. Gonzalez-Sevilla⁵², L. Goossens³⁵, P. A. Gorbounov¹⁰⁹, H. A. Gordon²⁹, B. Gorini³⁵, E. Gorini^{65a,65b}, A. Gorišek⁸⁹, A. T. Goshaw⁴⁷, C. Gössling⁴⁵, M. I. Gostkin⁷⁷, C. A. Gottardo²⁴, C. R. Goudet¹²⁹, D. Goujdami^{34c}, A. G. Goussiou¹⁴⁵, N. Govender^{32b,c}, C. Goy⁵, E. Gozani¹⁵⁷, I. Grabowska-Bold^{81a}, P. O. J. Gradin¹⁶⁹, E. C. Graham⁸⁸, J. Gramling¹⁶⁸, E. Gramstad¹³¹, S. Grancagnolo¹⁹, V. Gratchev¹³⁵, P. M. Gravila^{27f}, F. G. Gravili^{65a,65b}, C. Gray⁵⁵, H. M. Gray¹⁸, Z. D. Greenwood^{93,al}, C. Grefe²⁴, K. Gregersen⁹⁴, I. M. Gregor⁴⁴, P. Grenier¹⁵⁰, K. Grevtsov⁴⁴, N. A. Grieser¹²⁵, J. Griffiths⁸, A. A. Grillo¹⁴³, K. Grimm^{150,b}, S. Grinstein^{14,aa}, Ph. Gris³⁷, J.-F. Grivaz¹²⁹, S. Groh⁹⁷, E. Gross¹⁷⁷, J. Grosse-Knetter⁵¹, G. C. Grossi⁹³, Z. J. Grout⁹², C. Grud¹⁰³, A. Grummer¹¹⁶, L. Guan¹⁰³, W. Guan¹⁷⁸, J. Guenther³⁵, A. Guerguichon¹²⁹, F. Guescini^{165a}, D. Guest¹⁶⁸, R. Gugel⁵⁰, B. Gui¹²³, T. Guillemin⁵, S. Guindon³⁵, U. Gul⁵⁵, C. Gumpert³⁵, J. Guo^{58c}, W. Guo¹⁰³, Y. Guo^{58a,t}, Z. Guo⁹⁹, R. Gupta⁴¹, S. Gurbuz^{12c}, G. Gustavino¹²⁵, B. J. Gutelman¹⁵⁷, P. Gutierrez¹²⁵, C. Gutschow⁹², C. Guyot¹⁴², M. P. Guzik^{81a}, C. Gwenlan¹³², C. B. Gwilliam⁸⁸, A. Haas¹²², C. Haber¹⁸, H. K. Hadavand⁸, N. Haddad^{34e}, A. Hadef^{58a}, S. Hageböck²⁴, M. Hagihara¹⁶⁶, H. Hakobyan^{181,*}, M. Haleem¹⁷⁴, J. Haley¹²⁶, G. Halladjian¹⁰⁴, G. D. Hallewell⁹⁹, K. Hamacher¹⁷⁹, P. Hamal¹²⁷, K. Hamano¹⁷³, A. Hamilton^{32a}, G. N. Hamity¹⁴⁶, K. Han^{58a,ak}, L. Han^{58a}, S. Han^{15d}, K. Hanagaki^{79,w}, M. Hance¹⁴³, D. M. Handl¹¹², B. Haney¹³⁴, R. Hankache¹³³, P. Hanke^{59a}, E. Hansen⁹⁴, J. B. Hansen³⁹, J. D. Hansen³⁹, M. C. Hansen²⁴, P. H. Hansen³⁹, K. Hara¹⁶⁶, A. S. Hard¹⁷⁸, T. Harenberg¹⁷⁹, S. Harkusha¹⁰⁵, P. F. Harrison¹⁷⁵, N. M. Hartmann¹¹², Y. Hasegawa¹⁴⁷, A. Hasib⁴⁸, S. Hassani¹⁴², S. Haug²⁰, R. Hauser¹⁰⁴, L. Hauswald⁴⁶, L. B. Havener³⁸, M. Havranek¹³⁹, C. M. Hawkes²¹, R. J. Hawkings³⁵, D. Hayden¹⁰⁴, C. Hayes¹⁵², C. P. Hays¹³², J. M. Hays⁹⁰, H. S. Hayward⁸⁸, S. J. Haywood¹⁴¹, M. P. Heath⁴⁸, V. Hedberg⁹⁴, L. Heelan⁸, S. Heer²⁴, K. K. Heidegger⁵⁰, J. Heilman³³, S. Heim⁴⁴, T. Heim¹⁸, B. Heinemann^{44,4q}, J. J. Heinrich¹¹², L. Heinrich¹²², C. Heinz⁵⁴, J. Hejbal¹³⁸, L. Helary³⁵, A. Held¹⁷², S. Hellesund¹³¹, S. Hellman^{43a,43b}, C. Helsens³⁵, R. C. W. Henderson⁸⁷, Y. Heng¹⁷⁸, S. Henkelmann¹⁷², A. M. Henriques Correia³⁵, G. H. Herbert¹⁹, H. Herde²⁶, V. Herget¹⁷⁴, Y. Hernández Jiménez^{32c}, H. Herr⁹⁷, M. G. Herrmann¹¹², G. Herten⁵⁰, R. Hertenberger¹¹², L. Hervas³⁵, T. C. Herwig¹³⁴, G. G. Hesketh⁹², N. P. Hessey^{165a}, J. W. Hetherly⁴¹, S. Higashino⁷⁹, E. Higón-Rodríguez¹⁷¹, K. Hildebrand³⁶, E. Hill¹⁷³, J. C. Hill³¹, K. K. Hill²⁹, K. H. Hiller⁴⁴, S. J. Hillier²¹, M. Hils⁴⁶, I. Hinchliffe¹⁸, M. Hirose¹³⁰, D. Hirschbuehl¹⁷⁹, B. Hiti⁸⁹, O. Hladík¹³⁸, D. R. Hlaluku^{32c}, X. Hoad⁴⁸, J. Hobbs¹⁵², N. Hod^{165a}, M. C. Hodgkinson¹⁴⁶, A. Hoecker³⁵, M. R. Hoeferkamp¹¹⁶, F. Hoenig¹¹², D. Hohn²⁴, D. Hohov¹²⁹, T. R. Holmes³⁶, M. Holzbock¹¹², M. Homann⁴⁵, S. Honda¹⁶⁶, T. Honda⁷⁹, T. M. Hong¹³⁶, A. Hönlé¹¹³, B. H. Hooperman¹⁷⁰, W. H. Hopkins¹²⁸, Y. Horii¹¹⁵, P. Horn⁴⁶, A. J. Horton¹⁴⁹, L. A. Horyn³⁶, J.-Y. Hostachy⁵⁶, A. Hostiuc¹⁴⁵, S. Hou¹⁵⁵, A. Hoummada^{34a}, J. Howarth⁹⁸, J. Hoya⁸⁶, M. Hrabovsky¹²⁷, I. Hristova¹⁹, J. Hrvnac¹²⁹, A. Hrynevich¹⁰⁶, T. Hrynevich⁵, P. J. Hsu⁶², S.-C. Hsu¹⁴⁵, Q. Hu²⁹, S. Hu^{58c}, Y. Huang^{15a}, Z. Hubacek¹³⁹,

- F. Hubaut⁹⁹, M. Huebner²⁴, F. Huegging²⁴, T. B. Huffman¹³², E. W. Hughes³⁸, M. Huhtinen³⁵, R. F. H. Hunter³³, P. Huo¹⁵², A. M. Hupe³³, N. Huseynov^{77,ag}, J. Huston¹⁰⁴, J. Huth⁵⁷, R. Hyneman¹⁰³, G. Iacobucci⁵², G. Iakovovidis²⁹, I. Ibragimov¹⁴⁸, L. Iconomidou-Fayard¹²⁹, Z. Idrissi^{34e}, P. Iengo³⁵, R. Ignazzi³⁹, O. Igonkina^{118,ac}, R. Iguchi¹⁶⁰, T. Iizawa⁵², Y. Ikegami⁷⁹, M. Ikeno⁷⁹, D. Iliadis¹⁵⁹, N. Ilic¹¹⁷, F. Iltzsche⁴⁶, G. Introzzi^{68a,68b}, M. Iodice^{72a}, K. Iordanidou³⁸, V. Ippolito^{70a,70b}, M. F. Isacson¹⁶⁹, N. Ishijima¹³⁰, M. Ishino¹⁶⁰, M. Ishitsuka¹⁶², W. Islam¹²⁶, C. Issever¹³², S. Istin¹⁵⁷, F. Ito¹⁶⁶, J. M. Iturbe Ponce^{61a}, R. Iuppa^{73a,73b}, A. Ivina¹⁷⁷, H. Iwasaki⁷⁹, J. M. Izen⁴², V. Izzo^{67a}, P. Jacka¹³⁸, P. Jackson¹, R. M. Jacobs²⁴, V. Jain², G. Jäkel¹⁷⁹, K. B. Jakobi⁹⁷, K. Jakobs⁵⁰, S. Jakobsen⁷⁴, T. Jakoubek¹³⁸, D. O. Jamin¹²⁶, D. K. Jana⁹³, R. Jansky⁵², J. Janssen²⁴, M. Janus⁵¹, P. A. Janus^{81a}, G. Jarlskog⁹⁴, N. Javadov^{77,ag}, T. Javůrek³⁵, M. Javurkova⁵⁰, F. Jeanneau¹⁴², L. Jeanty¹⁸, J. Jejelava^{156a,ah}, A. Jelinskas¹⁷⁵, P. Jenni^{50,d}, J. Jeong⁴⁴, N. Jeong⁴⁴, S. Jézéquel⁵, H. Ji¹⁷⁸, J. Jia¹⁵², H. Jiang⁷⁶, Y. Jiang^{58a}, Z. Jiang^{150,r}, S. Jiggins⁵⁰, F. A. Jimenez Morales³⁷, J. Jimenez Pena¹⁷¹, S. Jin^{15c}, A. Jinaru^{27b}, O. Jinnouchi¹⁶², H. Jivan^{32c}, P. Johansson¹⁴⁶, K. A. Johns⁷, C. A. Johnson⁶³, W. J. Johnson¹⁴⁵, K. Jon-And^{43a,43b}, R. W. L. Jones⁸⁷, S. D. Jones¹⁵³, S. Jones⁷, T. J. Jones⁸⁸, J. Jongmanns^{59a}, P. M. Jorge^{137a,137b}, J. Jovicevic^{165a}, X. Ju¹⁸, J. J. Junggeburth¹¹³, A. Juste Rozas^{14,aa}, A. Kaczmar ska⁸², M. Kado¹²⁹, H. Kagan¹²³, M. Kagan¹⁵⁰, T. Kaji¹⁷⁶, E. Kajomovitz¹⁵⁷, C. W. Kalderon⁹⁴, A. Kaluza⁹⁷, S. Kama⁴¹, A. Kamenshchikov¹²¹, L. Kanjir⁸⁹, Y. Kano¹⁶⁰, V. A. Kantserov¹¹⁰, J. Kanzaki⁷⁹, B. Kaplan¹²², L. S. Kaplan¹⁷⁸, D. Kar^{32c}, M. J. Kareem^{165b}, E. Karentzos¹⁰, S. N. Karpov⁷⁷, Z. M. Karpova⁷⁷, V. Kartvelishvili⁸⁷, A. N. Karyukhin¹²¹, L. Kashif¹⁷⁸, R. D. Kass¹²³, A. Kastanas¹⁵¹, Y. Kataoka¹⁶⁰, C. Kato^{58c,58d}, J. Katzy⁴⁴, K. Kawade⁸⁰, K. Kawagoe⁸⁵, T. Kawamoto¹⁶⁰, G. Kawamura⁵¹, E. F. Kay⁸⁸, V. F. Kazanin^{120a,120b}, R. Keeler¹⁷³, R. Kehoe⁴¹, J. S. Keller³³, E. Kellermann⁹⁴, J. J. Kempster²¹, J. Kendrick²¹, O. Kepka¹³⁸, S. Kersten¹⁷⁹, B. P. Kerševan⁸⁹, R. A. Keyes¹⁰¹, M. Khader¹⁷⁰, F. Khalil-Zada¹³, A. Khanov¹²⁶, A. G. Kharlamov^{120a,120b}, T. Kharlamova^{120a,120b}, E. E. Khoda¹⁷², A. Khodinov¹⁶³, T. J. Khoo⁵², E. Khramov⁷⁷, J. Khubua^{156b}, S. Kido⁸⁰, M. Kiehn⁵², C. R. Kilby⁹¹, Y. K. Kim³⁶, N. Kimura^{64a,64c}, O. M. Kind¹⁹, B. T. King⁸⁸, D. Kirchmeier⁴⁶, J. Kirk¹⁴¹, A. E. Kiryunin¹¹³, T. Kishimoto¹⁶⁰, D. Kisielewska^{81a}, V. Kitali⁴⁴, O. Kivernyk⁵, E. Kladiva^{28b,*}, T. Klapdor-Kleingrothaus⁵⁰, M. H. Klein¹⁰³, M. Klein⁸⁸, U. Klein⁸⁸, K. Kleinknecht⁹⁷, P. Klimek¹¹⁹, A. Klimentov²⁹, R. Klingenberg^{45,*}, T. Klingl²⁴, T. Klioutchnikova³⁵, F. F. Klitzner¹¹², P. Kluit¹¹⁸, S. Kluth¹¹³, E. Knerner⁷⁴, E. B. F. G. Knoops⁹⁹, A. Knue⁵⁰, A. Kobayashi¹⁶⁰, D. Kobayashi⁸⁵, T. Kobayashi¹⁶⁰, M. Kobel⁴⁶, M. Kocian¹⁵⁰, P. Kodys¹⁴⁰, P. T. Koenig²⁴, T. Koffas³³, E. Koffeman¹¹⁸, N. M. Köhler¹¹³, T. Koi¹⁵⁰, M. Kolb^{59b}, I. Koletsou⁵, T. Kondo⁷⁹, N. Kondrashova^{58c}, K. Köneke⁵⁰, A. C. König¹¹⁷, T. Kono⁷⁹, R. Konoplich^{122,an}, V. Konstantinides⁹², N. Konstantinidis⁹², B. Konya⁹⁴, R. Kopeliansky⁶³, S. Koperny^{81a}, K. Korcyl⁸², K. Kordas¹⁵⁹, G. Koren¹⁵⁸, A. Korn⁹², I. Korolkov¹⁴, E. V. Korolkova¹⁴⁶, N. Korotkova¹¹¹, O. Kortner¹¹³, S. Kortner¹¹³, T. Kosek¹⁴⁰, V. V. Kostyukhin²⁴, A. Kotwal⁴⁷, A. Koulouris¹⁰, A. Kourkoumeli-Charalampidi^{68a,68b}, C. Kourkoumelis⁹, E. Kourlitis¹⁴⁶, V. Kouskoura²⁹, A. B. Kowalewska⁸², R. Kowalewski¹⁷³, T. Z. Kowalski^{81a}, C. Kozakai¹⁶⁰, W. Kozanecki¹⁴², A. S. Kozhin¹²¹, V. A. Kramarenko¹¹¹, G. Kramberger⁸⁹, D. Krasnopevtsev^{58a}, M. W. Krasny¹³³, A. Krasznahorkay³⁵, D. Krauss¹¹³, J. A. Kremer^{81a}, J. Kretschmar⁸⁸, P. Krieger¹⁶⁴, K. Krizka¹⁸, K. Kroeninger⁴⁵, H. Kroha¹¹³, J. Kroll¹³⁸, J. Kroll¹³⁴, J. Krstic¹⁶, U. Kruchonak⁷⁷, H. Krüger²⁴, N. Krumnack⁷⁶, M. C. Kruse⁴⁷, T. Kubota¹⁰², S. Kuday^{4b}, J. T. Kuechler¹⁷⁹, S. Kuehn³⁵, A. Kugel^{59a}, F. Kuger¹⁷⁴, T. Kuhl⁴⁴, V. Kukhtin⁷⁷, R. Kukla⁹⁹, Y. Kulchitsky¹⁰⁵, S. Kuleshov^{144b}, Y. P. Kulinich¹⁷⁰, M. Kuna⁵⁶, T. Kunigo⁸³, A. Kupco¹³⁸, T. Kupfer⁴⁵, O. Kuprash¹⁵⁸, H. Kurashige⁸⁰, L. L. Kurchaninov^{165a}, Y. A. Kurochkin¹⁰⁵, M. G. Kurth^{15d}, E. S. Kuwertz³⁵, M. Kuze¹⁶², J. Kvita¹²⁷, T. Kwan¹⁰¹, A. La Rosa¹¹³, J. L. La Rosa Navarro^{78d}, L. La Rotonda^{40a,40b}, F. La Ruffa^{40a,40b}, C. Lacasta¹⁷¹, F. Lacava^{70a,70b}, J. Lacey⁴⁴, D. P. J. Lack⁹⁸, H. Lacker¹⁹, D. Lacour¹³³, E. Ladygin⁷⁷, R. Lafaye⁵, B. Laforge¹³³, T. Lagouri^{32c}, S. Lai⁵¹, S. Lammers⁶³, W. Lampl⁷, E. Lançon²⁹, U. Landgraf⁵⁰, M. P. J. Landon⁹⁰, M. C. Lanfermann⁵², V. S. Lang⁴⁴, J. C. Lange¹⁴, R. J. Langenberg³⁵, A. J. Lankford¹⁶⁸, F. Lanni²⁹, K. Lantzsch²⁴, A. Lanza^{68a}, A. Lapertosa^{53a,53b}, S. Laplace¹³³, J. F. Laporte¹⁴², T. Lari^{66a}, F. Lasagni Manghi^{23a,23b}, M. Lassnig³⁵, T. S. Lau^{61a}, A. Laudrain¹²⁹, M. Lavorgna^{67a,67b}, A. T. Law¹⁴³, M. Lazzaroni^{66a,66b}, B. Le¹⁰², O. Le Dortz¹³³, E. Le Guirriec⁹⁹, E. P. Le Quilleuc¹⁴², M. LeBlanc⁷, T. LeCompte⁶, F. Ledroit-Guillon⁵⁶, C. A. Lee²⁹, G. R. Lee^{144a}, L. Lee⁵⁷, S. C. Lee¹⁵⁵, B. Lefebvre¹⁰¹, M. Lefebvre¹⁷³, F. Legger¹¹², C. Leggett¹⁸, K. Lehmann¹⁴⁹, N. Lehmann¹⁷⁹, G. Lehmann Miotto³⁵, W. A. Leight⁴⁴, A. Leisos^{159,x}, M. A. L. Leite^{78d}, R. Leitner¹⁴⁰, D. Lellouch¹⁷⁷, B. Lemmer⁵¹, K. J. C. Leney⁹², T. Lenz²⁴, B. Lenzi³⁵, R. Leone⁷, S. Leone^{69a}, C. Leonidopoulos⁴⁸, G. Lerner¹⁵³, C. Leroy¹⁰⁷, R. Les¹⁶⁴, A. A. J. Lesage¹⁴², C. G. Lester³¹, M. Levchenko¹³⁵, J. Levêque⁵, D. Levin¹⁰³, L. J. Levinson¹⁷⁷, D. Lewis⁹⁰, B. Li¹⁰³, C.-Q. Li^{58a,am}, H. Li^{58b}, L. Li^{58c}, Q. Li^{15d}, Q. Y. Li^{58a}, S. Li^{58c,58d}, X. Li^{58c}, Y. Li¹⁴⁸, Z. Liang^{15a}, B. Liberti^{71a}, A. Liblong¹⁶⁴, K. Lie^{61c}, S. Liem¹¹⁸, A. Limosani¹⁵⁴, C. Y. Lin³¹, K. Lin¹⁰⁴, T. H. Lin⁹⁷, R. A. Linck⁶³, J. H. Lindon²¹, B. E. Lindquist¹⁵², A. L. Lioni⁵², E. Lipeles¹³⁴, A. Lipniacka¹⁷, M. Lisovyi^{59b}, T. M. Liss^{170,as}, A. Lister¹⁷², A. M. Litke¹⁴³, J. D. Little⁸, B. Liu⁷⁶, B. L. Liu⁶, H. B. Liu²⁹, H. Liu¹⁰³, J. B. Liu^{58a}, J. K. K. Liu¹³², K. Liu¹³³, M. Liu^{58a}, P. Liu¹⁸, Y. Liu^{15a}, Y. L. Liu^{58a}, Y. W. Liu^{58a}, M. Livan^{68a,68b}, A. Lleres⁵⁶, J. Llorente Merino^{15a}, S. L. Lloyd⁹⁰, C. Y. Lo^{61b}, F. Lo Sterzo⁴¹, E. M. Lobodzinska⁴⁴, P. Loch⁷, T. Lohse¹⁹,

- K. Lohwasser¹⁴⁶, M. Lokajicek¹³⁸, B. A. Long²⁵, J. D. Long¹⁷⁰, R. E. Long⁸⁷, L. Longo^{65a,65b}, K. A. Looper¹²³, J. A. Lopez^{144b}, I. Lopez Paz¹⁴, A. Lopez Solis¹⁴⁶, J. Lorenz¹¹², N. Lorenzo Martinez⁵, M. Losada²², P. J. Lösel¹¹², A. Lösle⁵⁰, X. Lou⁴⁴, X. Lou^{15a}, A. Lounis¹²⁹, J. Love⁶, P. A. Love⁸⁷, J. J. Lozano Bahilo¹⁷¹, H. Lu^{61a}, M. Lu^{58a}, N. Lu¹⁰³, Y. J. Lu⁶², H. J. Lubatti¹⁴⁵, C. Luci^{70a,70b}, A. Lucotte⁵⁶, C. Luedtke⁵⁰, F. Luehring⁶³, I. Luise¹³³, L. Luminari^{70a}, B. Lund-Jensen¹⁵¹, M. S. Lutz¹⁰⁰, P. M. Luzi¹³³, D. Lynn²⁹, R. Lysak¹³⁸, E. Lytken⁹⁴, F. Lyu^{15a}, V. Lyubushkin⁷⁷, H. Ma²⁹, L. L. Ma^{58b}, Y. Ma^{58b}, G. Maccarrone⁴⁹, A. Macchiolo¹¹³, C. M. Macdonald¹⁴⁶, J. Machado Miguens^{134,137b}, D. Madaffari¹⁷¹, R. Madar³⁷, W. F. Mader⁴⁶, A. Madsen⁴⁴, N. Madysa⁴⁶, J. Maeda⁸⁰, K. Maekawa¹⁶⁰, S. Maeland¹⁷, T. Maeno²⁹, A. S. Maevskiy¹¹¹, V. Magerl⁵⁰, C. Maidantchik^{78b}, T. Maier¹¹², A. Maio^{137a,137b,137d}, O. Majersky^{28a}, S. Majewski¹²⁸, Y. Makida⁷⁹, N. Makovec¹²⁹, B. Malaescu¹³³, Pa. Malecki⁸², V. P. Maleev¹³⁵, F. Malek⁵⁶, U. Mallik⁷⁵, D. Malon⁶, C. Malone³¹, S. Maltezos¹⁰, S. Malyukov³⁵, J. Mamuzic¹⁷¹, G. Mancini⁴⁹, I. Mandic⁸⁹, J. Maneira^{137a}, L. Manhaes de Andrade Filho^{78a}, J. Manjarres Ramos⁴⁶, K. H. Mankinen⁹⁴, A. Mann¹¹², A. Manousos⁷⁴, B. Mansoulie¹⁴², J. D. Mansour^{15a}, M. Mantoani⁵¹, S. Manzoni^{66a,66b}, G. Marceca³⁰, L. March⁵², L. Marchese¹³², G. Marchiori¹³³, M. Marcisovsky¹³⁸, C. A. Marin Tobon³⁵, M. Marjanovic³⁷, D. E. Marley¹⁰³, F. Marroquim^{78b}, Z. Marshall¹⁸, M. U. F Martensson¹⁶⁹, S. Marti-Garcia¹⁷¹, C. B. Martin¹²³, T. A. Martin¹⁷⁵, V. J. Martin⁴⁸, B. Martin dit Latour¹⁷, M. Martinez^{14,aa}, V. I. Martinez Outschoorn¹⁰⁰, S. Martin-Haugh¹⁴¹, V. S. Martoiu^{27b}, A. C. Martyniuk⁹², A. Marzin³⁵, L. Masetti⁹⁷, T. Mashimo¹⁶⁰, R. Mashinistov¹⁰⁸, J. Masik⁹⁸, A. L. Maslennikov^{120a,120b}, L. H. Mason¹⁰², L. Massa^{71a,71b}, P. Massarotti^{67a,67b}, P. Mastrandrea⁵, A. Mastroberardino^{40a,40b}, T. Masubuchi¹⁶⁰, P. Mättig¹⁷⁹, J. Maurei^{27b}, B. Maček⁸⁹, S. J. Maxfield⁸⁸, D. A. Maximov^{120a,120b}, R. Mazini¹⁵⁵, I. Maznai¹⁵⁹, S. M. Mazza¹⁴³, N. C. Mc Fadden¹¹⁶, G. Mc Goldrick¹⁶⁴, S. P. Mc Kee¹⁰³, A. McCarn¹⁰³, T. G. McCarthy¹¹³, L. I. McClymont⁹², E. F. McDonald¹⁰², J. A. McFayden³⁵, G. Mchedlidze⁵¹, M. A. McKay⁴¹, K. D. McLean¹⁷³, S. J. McMahon¹⁴¹, P. C. McNamara¹⁰², C. J. McNicol¹⁷⁵, R. A. McPherson^{173,ae}, J. E. Mdhluli^{32c}, Z. A. Meadows¹⁰⁰, S. Meehan¹⁴⁵, T. M. Megy⁵⁰, S. Mehlhase¹¹², A. Mehta⁸⁸, T. Meideck⁵⁶, B. Meirose⁴², D. Melini^{171,h}, B. R. Mellado Garcia^{32c}, J. D. Mellenthin⁵¹, M. Melo^{28a}, F. Meloni⁴⁴, A. Melzer²⁴, S. B. Menary⁹⁸, E. D. Mendes Gouveia^{137a}, L. Meng⁸⁸, X. T. Meng¹⁰³, A. Mengarelli^{23a,23b}, S. Menke¹¹³, E. Meoni^{40a,40b}, S. Mergelmeyer¹⁹, C. Merlassino²⁰, P. Mermod⁵², L. Merola^{67a,67b}, C. Meroni^{66a}, F. S. Merritt³⁶, A. Messina^{70a,70b}, J. Metcalfe⁶, A. S. Mete¹⁶⁸, C. Meyer¹³⁴, J. Meyer¹⁵⁷, J.-P. Meyer¹⁴², H. Meyer Zu Theenhausen^{59a}, F. Miano¹⁵³, R. P. Middleton¹⁴¹, L. Mijovic⁴⁸, G. Mikenberg¹⁷⁷, M. Mikestikova¹³⁸, M. Mikuz⁸⁹, M. Milesi¹⁰², A. Milic¹⁶⁴, D. A. Millar⁹⁰, D. W. Miller³⁶, A. Milov¹⁷⁷, D. A. Milstead^{43a,43b}, A. A. Minaenko¹²¹, M. Miñano Moya¹⁷¹, I. A. Minashvili^{156b}, A. I. Mincer¹²², B. Mindur^{81a}, M. Mineev⁷⁷, Y. Minegishi¹⁶⁰, Y. Ming¹⁷⁸, L. M. Mir¹⁴, A. Mirt^{65a,65b}, K. P. Mistry¹³⁴, T. Mitani¹⁷⁶, J. Mitrevski¹¹², V. A. Mitsou¹⁷¹, A. Miucci²⁰, P. S. Miyagawa¹⁴⁶, A. Mizukami⁷⁹, J. U. Mjörnmark⁹⁴, T. Mkrtchyan¹⁸¹, M. Mlynarikova¹⁴⁰, T. Moa^{43a,43b}, K. Mochizuki¹⁰⁷, P. Mogg⁵⁰, S. Mohapatra³⁸, S. Molander^{43a,43b}, R. Moles-Valls²⁴, M. C. Mondragon¹⁰⁴, K. Mönig⁴⁴, J. Monk³⁹, E. Monnier⁹⁹, A. Montalbano¹⁴⁹, J. Montej Berlingen³⁵, F. Monticelli⁸⁶, S. Monzani^{66a}, N. Morange¹²⁹, D. Moreno²², M. Moreno Llácer³⁵, P. Morettini^{53b}, M. Morgenstern¹¹⁸, S. Morgenstern⁴⁶, D. Mori¹⁴⁹, M. Morii⁵⁷, M. Morinaga¹⁷⁶, V. Morisbak¹³¹, A. K. Morley³⁵, G. Mornacchi³⁵, A. P. Morris⁹², J. D. Morris⁹⁰, L. Morvaj¹⁵², P. Moschovakos¹⁰, M. Mosidze^{156b}, H. J. Moss¹⁴⁶, J. Moss^{150,o}, K. Motohashi¹⁶², R. Mount¹⁵⁰, E. Mountricha³⁵, E. J. W. Moyse¹⁰⁰, S. Muanza⁹⁹, F. Mueller¹¹³, J. Mueller¹³⁶, R. S. P. Mueller¹¹², D. Muenstermann⁸⁷, G. A. Mullier²⁰, F. J. Munoz Sanchez⁹⁸, P. Murin^{28b}, W. J. Murray^{141,175}, A. Murrone^{66a,66b}, M. Muškinja⁸⁹, C. Mwewa^{32a}, A. G. Myagkov^{121,ao}, J. Myers¹²⁸, M. Myska¹³⁹, B. P. Nachman¹⁸, O. Nackenhorst⁴⁵, K. Nagai¹³², K. Nagano⁷⁹, Y. Nagasaka⁶⁰, M. Nagel⁵⁰, E. Nagy⁹⁹, A. M. Nairz³⁵, Y. Nakahama¹¹⁵, K. Nakamura⁷⁹, T. Nakamura¹⁶⁰, I. Nakano¹²⁴, H. Nanjo¹³⁰, F. Napolitano^{59a}, R. F. Naranjo Garcia⁴⁴, R. Narayan¹¹, D. I. Narrias Villar^{59a}, I. Naryshkin¹³⁵, T. Naumann⁴⁴, G. Navarro²², R. Nayyar⁷, H. A. Neal^{103,*}, P. Y. Nechaeva¹⁰⁸, T. J. Neep¹⁴², A. Negri^{68a,68b}, M. Negrini^{23b}, S. Nektarijevic¹¹⁷, C. Nellist⁵¹, M. E. Nelson¹³², S. Nemecek¹³⁸, P. Nemethy¹²², M. Nessi^{35,f}, M. S. Neubauer¹⁷⁰, M. Neumann¹⁷⁹, P. R. Newman²¹, T. Y. Ng^{61c}, Y. S. Ng¹⁹, H. D. N. Nguyen⁹⁹, T. Nguyen Manh¹⁰⁷, E. Nibigira³⁷, R. B. Nickerson¹³², R. Nicolaïdou¹⁴², J. Nielsen¹⁴³, N. Nikiforou¹¹, V. Nikolaenko^{121,ao}, I. Nikolic-Audit¹³³, K. Nikolopoulos²¹, P. Nilsson²⁹, Y. Ninomiya⁷⁹, A. Nisati^{70a}, N. Nishu^{58c}, R. Nisi¹¹³, I. Nitsche⁴⁵, T. Nitta¹⁷⁶, T. Nobe¹⁶⁰, Y. Noguchi⁸³, M. Nomachi¹³⁰, I. Nomidis¹³³, M. A. Nomura²⁹, T. Nooney⁹⁰, M. Nordberg³⁵, N. Norjoharuddeen¹³², T. Novak⁸⁹, O. Novgorodova⁴⁶, R. Novotny¹³⁹, L. Nozka¹²⁷, K. Ntekas¹⁶⁸, E. Nurse⁹², F. Nuti¹⁰², F. G. Oakham^{33,av}, H. Oberlack¹¹³, T. Obermann²⁴, J. Ocariz¹³³, A. Ochi⁸⁰, I. Ochoa³⁸, J. P. Ochoa-Ricoux^{144a}, K. O'Connor²⁶, S. Oda⁸⁵, S. Odaka⁷⁹, S. Oerde⁵¹, A. Oh⁹⁸, S. H. Oh⁴⁷, C. C. Ohm¹⁵¹, H. Oide^{53a,53b}, M. L. Ojeda¹⁶⁴, H. Okawa¹⁶⁶, Y. Okazaki⁸³, Y. Okumura¹⁶⁰, T. Okuyama⁷⁹, A. Olariu^{27b}, L. F. Oleiro Seabra^{137a}, S. A. Olivares Pino^{144a}, D. Oliveira Damazio²⁹, J. L. Oliver¹, M. J. R. Olsson³⁶, A. Olszewski⁸², J. Olszowska⁸², D. C. O'Neil¹⁴⁹, A. Onofre^{137a,137e}, K. Onogi¹¹⁵, P. U. E. Onyisi¹¹, H. Oppen¹³¹, M. J. Oreglia³⁶, G. E. Orellana⁸⁶, Y. Oren¹⁵⁸, D. Orestano^{72a,72b}, E. C. Orgill⁹⁸, N. Orlando^{61b}, A. A. O'Rourke⁴⁴, R. S. Orr¹⁶⁴, B. Osculati^{53a,53b,*}, V. O'Shea⁵⁵, R. Ospanov^{58a}, G. Otero y Garzon³⁰,

- H. Otono⁸⁵, M. Ouchrif^{34d}, F. Ould-Saada¹³¹, A. Ouraou¹⁴², Q. Ouyang^{15a}, M. Owen⁵⁵, R. E. Owen²¹, V. E. Ozcan^{12c}, N. Ozturk⁸, J. Pacalt¹²⁷, H. A. Pacey³¹, K. Pachal¹⁴⁹, A. Pacheco Pages¹⁴, L. Pacheco Rodriguez¹⁴², C. Padilla Aranda¹⁴, S. Pagan Griso¹⁸, M. Paganini¹⁸⁰, G. Palacino⁶³, S. Palazzo^{40a,40b}, S. Palestini³⁵, M. Palka^{81b}, D. Pallin³⁷, I. Panagoulias¹⁰, C. E. Pandini³⁵, J. G. Panduro Vazquez⁹¹, P. Pani³⁵, G. Panizzo^{64a,64c}, L. Paolozzi⁵², T. D. Papadopoulou¹⁰, K. Papageorgiou^{9,k}, A. Paramonov⁶, D. Paredes Hernandez^{61b}, S. R. Paredes Saenz¹³², B. Parida¹⁶³, A. J. Parker⁸⁷, K. A. Parker⁴⁴, M. A. Parker³¹, F. Parodi^{53a,53b}, J. A. Parsons³⁸, U. Parzefall⁵⁰, V. R. Pascuzzi¹⁶⁴, J. M. P. Pasner¹⁴³, E. Pasqualucci^{70a}, S. Passaggio^{53b}, F. Pastore⁹¹, P. Pasuwan^{43a,43b}, S. Pataraia⁹⁷, J. R. Pater⁹⁸, A. Pathak^{178,l}, T. Pauly³⁵, B. Pearson¹¹³, M. Pedersen¹³¹, L. Pedraza Diaz¹¹⁷, R. Pedro^{137a,137b}, S. V. Peleganchuk^{120a,120b}, O. Penc¹³⁸, C. Peng^{15d}, H. Peng^{58a}, B. S. Peralva^{78a}, M. M. Perego¹⁴², A. P. Pereira Peixoto^{137a}, D. V. Perepelitsa²⁹, F. Peri¹⁹, L. Perini^{66a,66b}, H. Pernegger³⁵, S. Perrella^{67a,67b}, V. D. Peshekhonov^{77,*}, K. Peters⁴⁴, R. F. Y. Peters⁹⁸, B. A. Petersen³⁵, T. C. Petersen³⁹, E. Petit⁵⁶, A. Petridis¹, C. Petridou¹⁵⁹, P. Petroff¹²⁹, M. Petrov¹³², F. Petracci^{72a,72b}, M. Pettee¹⁸⁰, N. E. Pettersson¹⁰⁰, A. Peyaud¹⁴², R. Pezoa^{144b}, T. Pham¹⁰², F. H. Phillips¹⁰⁴, P. W. Phillips¹⁴¹, M. W. Phipps¹⁷⁰, G. Piacquadio¹⁵², E. Pianori¹⁸, A. Picazio¹⁰⁰, M. A. Pickering¹³², R. H. Pickles⁹⁸, R. Piegaia³⁰, J. E. Pilcher³⁶, A. D. Pilkington⁹⁸, M. Pinamonti^{71a,71b}, J. L. Pinfold³, M. Pitt¹⁷⁷, M.-A. Pleier²⁹, V. Pleskot¹⁴⁰, E. Plotnikova⁷⁷, D. Pluth⁷⁶, P. Podberezko^{120a,120b}, R. Poettgen⁹⁴, R. Poggi⁵², L. Poggioli¹²⁹, I. Pogrebnyak¹⁰⁴, D. Pohl²⁴, I. Pokharel⁵¹, G. Polesello^{68a}, A. Poley¹⁸, A. Policicchio^{70a,70b}, R. Polifka³⁵, A. Polini^{23b}, C. S. Pollard⁴⁴, V. Polychronakos²⁹, D. Ponomarenko¹¹⁰, L. Pontecorvo³⁵, G. A. Popeneciu^{27d}, D. M. Portillo Quintero¹³³, S. Pospisil¹³⁹, K. Potamianos⁴⁴, I. N. Potrap⁷⁷, C. J. Potter³¹, H. Potti¹¹, T. Poulsen⁹⁴, J. Poveda³⁵, T. D. Powell¹⁴⁶, M. E. Pozo Astigarraga³⁵, P. Pralavorio⁹⁹, S. Prell⁷⁶, D. Price⁹⁸, M. Primavera^{65a}, S. Prince¹⁰¹, N. Proklova¹¹⁰, K. Prokofiev^{61c}, F. Prokoshin^{144b}, S. Protopopescu²⁹, J. Proudfoot⁶, M. Przybycien^{81a}, A. Puri¹⁷⁰, P. Puzo¹²⁹, J. Qian¹⁰³, Y. Qin⁹⁸, A. Quadt⁵¹, M. Queitsch-Maitland⁴⁴, A. Qureshi¹, P. Rados¹⁰², F. Ragusa^{66a,66b}, G. Rahal⁹⁵, J. A. Raine⁵², S. Rajagopalan²⁹, A. Ramirez Morales⁹⁰, T. Rashid¹²⁹, S. Raspopov⁵, M. G. Ratti^{66a,66b}, D. M. Rauch⁴⁴, F. Rauscher¹¹², S. Rave⁹⁷, B. Ravina¹⁴⁶, I. Ravinovich¹⁷⁷, J. H. Rawling⁹⁸, M. Raymond³⁵, A. L. Read¹³¹, N. P. Readioff⁵⁶, M. Reale^{65a,65b}, D. M. Rebuzzi^{68a,68b}, A. Redelbach¹⁷⁴, G. Redlinger²⁹, R. Reece¹⁴³, R. G. Reed^{32c}, K. Reeves⁴², L. Rehnisch¹⁹, J. Reichert¹³⁴, D. Reikher¹⁵⁸, A. Reiss⁹⁷, C. Rembser³⁵, H. Ren^{15d}, M. Rescigno^{70a}, S. Resconi^{66a}, E. D. Ressegue¹³⁴, S. Rettie¹⁷², E. Reynolds²¹, O. L. Rezanova^{120a,120b}, P. Reznicek¹⁴⁰, E. Ricci^{73a,73b}, R. Richter¹¹³, S. Richter⁴⁴, E. Richter-Was^{81b}, O. Ricken²⁴, M. Ridel¹³³, P. Rieck¹¹³, C. J. Riegel¹⁷⁹, O. Rifki⁴⁴, M. Rijssenbeek¹⁵², A. Rimoldi^{68a,68b}, M. Rimoldi²⁰, L. Rinaldi^{23b}, G. Ripellino¹⁵¹, B. Ristic⁸⁷, E. Ritsch³⁵, I. Riu¹⁴, J. C. Rivera Vergara^{144a}, F. Rizatdinova¹²⁶, E. Rizvi⁹⁰, C. Rizzi¹⁴, R. T. Roberts⁹⁸, S. H. Robertson^{101,ae}, D. Robinson³¹, J. E. M. Robinson⁴⁴, A. Robson⁵⁵, E. Rocco⁹⁷, C. Roda^{69a,69b}, Y. Rodina⁹⁹, S. Rodriguez Bosca¹⁷¹, A. Rodriguez Perez¹⁴, D. Rodriguez Rodriguez¹⁷¹, A. M. Rodriguez Vera^{165b}, S. Roe³⁵, C. S. Rogan⁵⁷, O. Røhne¹³¹, R. Röhrlig¹¹³, C. P. A. Roland⁶³, J. Roloff⁵⁷, A. Romaniouk¹¹⁰, M. Romano^{23a,23b}, N. Rompotis⁸⁸, M. Ronzani¹²², L. Roos¹³³, S. Rosati^{70a}, K. Rosbach⁵⁰, P. Rose¹⁴³, N.-A. Rosien⁵¹, E. Rossi⁴⁴, E. Rossi^{67a,67b}, L. P. Rossi^{53b}, L. Rossini^{66a,66b}, J. H. N. Rosten³¹, R. Rosten¹⁴, M. Rotaru^{27b}, J. Rothberg¹⁴⁵, D. Rousseau¹²⁹, D. Roy^{32c}, A. Rozanov⁹⁹, Y. Rozen¹⁵⁷, X. Ruan^{32c}, F. Rubbo¹⁵⁰, F. Rühr⁵⁰, A. Ruiz-Martinez¹⁷¹, Z. Rurikova⁵⁰, N. A. Rusakovich⁷⁷, H. L. Russell¹⁰¹, J. P. Rutherford⁷, E. M. Rüttinger^{44,m}, Y. F. Ryabov¹³⁵, M. Rybar¹⁷⁰, G. Rybkin¹²⁹, S. Ryu⁶, A. Ryzhov¹²¹, G. F. Rzehorz⁵¹, P. Sabatini⁵¹, G. Sabato¹¹⁸, S. Sacerdoti¹²⁹, H. F.-W. Sadrozinski¹⁴³, R. Sadykov⁷⁷, F. Safai Tehrani^{70a}, P. Saha¹¹⁹, M. Sahinsoy^{59a}, A. Sahu¹⁷⁹, M. Saimpert⁴⁴, M. Saito¹⁶⁰, T. Saito¹⁶⁰, H. Sakamoto¹⁶⁰, A. Sakharov^{122,an}, D. Salamani⁵², G. Salamanna^{72a,72b}, J. E. Salazar Loyola^{144b}, D. Salek¹¹⁸, P. H. Sales De Bruin¹⁶⁹, D. Salihagic¹¹³, A. Salnikov¹⁵⁰, J. Salt¹⁷¹, D. Salvatore^{40a,40b}, F. Salvatore¹⁵³, A. Salvucci^{61a,61b,61c}, A. Salzburger³⁵, J. Samarati³⁵, D. Sammel⁵⁰, D. Sampsonidis¹⁵⁹, D. Sampsonidou¹⁵⁹, J. Sánchez¹⁷¹, A. Sanchez Pineda^{64a,64c}, H. Sandaker¹³¹, C. O. Sander⁴⁴, M. Sandhoff¹⁷⁹, C. Sandoval²², D. P. C. Sankey¹⁴¹, M. Sannino^{53a,53b}, Y. Sano¹¹⁵, A. Sansoni⁴⁹, C. Santoni³⁷, H. Santos^{137a}, I. Santoyo Castillo¹⁵³, A. Santra¹⁷¹, A. Sapronov⁷⁷, J. G. Saraiva^{137a,137d}, O. Sasaki⁷⁹, K. Sato¹⁶⁶, E. Sauvan⁵, P. Savard^{164,av}, N. Savic¹¹³, R. Sawada¹⁶⁰, C. Sawyer¹⁴¹, L. Sawyer^{93,al}, C. Sbarra^{23b}, A. Sbrizzi^{23a}, T. Scanlon⁹², J. Schaarschmidt¹⁴⁵, P. Schacht¹¹³, B. M. Schachtner¹¹², D. Schaefer³⁶, L. Schaefer¹³⁴, J. Schaeffer⁹⁷, S. Schaepe³⁵, U. Schäfer⁹⁷, A. C. Schaffer¹²⁹, D. Schaile¹¹², R. D. Schamberger¹⁵², N. Scharnberg⁹⁸, V. A. Schegelsky¹³⁵, D. Scheirich¹⁴⁰, F. Schenck¹⁹, M. Schernau¹⁶⁸, C. Schiavi^{53a,53b}, S. Schier¹⁴³, L. K. Schildgen²⁴, Z. M. Schillaci²⁶, E. J. Schioppa³⁵, M. Schioppa^{40a,40b}, K. E. Schleicher⁵⁰, S. Schlenker³⁵, K. R. Schmidt-Sommerfeld¹¹³, K. Schmieden³⁵, C. Schmitt⁹⁷, S. Schmitt⁴⁴, S. Schmitz⁹⁷, J. C. Schmoekel⁴⁴, U. Schnoor⁵⁰, L. Schoeffel¹⁴², A. Schoening^{59b}, E. Schopf²⁴, M. Schott⁹⁷, J. F. P. Schouwenberg¹¹⁷, J. Schovancova³⁵, S. Schramm⁵², A. Schulte⁹⁷, H.-C. Schultz-Coulon^{59a}, M. Schumacher⁵⁰, B. A. Schumm¹⁴³, Ph. Schune¹⁴², A. Schwartzman¹⁵⁰, T. A. Schwarz¹⁰³, Ph. Schwemling¹⁴², R. Schwienhorst¹⁰⁴, A. Sciandra²⁴, G. Sciolla²⁶, M. Scornajenghi^{40a,40b}, F. Scuri^{69a}, F. Scutti¹⁰², L. M. Scyboz¹¹³, J. Searcy¹⁰³, C. D. Sebastiani^{70a,70b}, P. Seema¹⁹, S. C. Seidel¹¹⁶, A. Seiden¹⁴³, T. Seiss³⁶, J. M. Seixas^{78b}, G. Sekhniadze^{67a}, K. Sekhon¹⁰³, S. J. Sekula⁴¹, N. Semprini-Cesari^{23a,23b}, S. Sen⁴⁷, S. Senkin³⁷,

- C. Serfon¹³¹, L. Serin¹²⁹, L. Serkin^{64a,64b}, M. Sessa^{58a}, H. Severini¹²⁵, F. Sforza¹⁶⁷, A. Sfyrla⁵², E. Shabalina⁵¹, J. D. Shahinian¹⁴³, N. W. Shaikh^{43a,43b}, L. Y. Shan^{15a}, R. Shang¹⁷⁰, J. T. Shank²⁵, M. Shapiro¹⁸, A. S. Sharma¹, A. Sharma¹³², P. B. Shatalov¹⁰⁹, K. Shaw¹⁵³, S. M. Shaw⁹⁸, A. Shcherbakova¹³⁵, Y. Shen¹²⁵, N. Sherafati³³, A. D. Sherman²⁵, P. Sherwood⁹², L. Shi^{155,ar}, S. Shimizu⁷⁹, C. O. Shimmin¹⁸⁰, M. Shimojima¹¹⁴, I. P. J. Shipsey¹³², S. Shirabe⁸⁵, M. Shiyakova⁷⁷, J. Shlomi¹⁷⁷, A. Shmeleva¹⁰⁸, D. Shoaleh Saadi¹⁰⁷, M. J. Shochet³⁶, S. Shoaii¹⁰², D. R. Shope¹²⁵, S. Shrestha¹²³, E. Shulga¹¹⁰, P. Sicho¹³⁸, A. M. Sickles¹⁷⁰, P. E. Sidebo¹⁵¹, E. Sideras Haddad^{32c}, O. Sidiropoulou³⁵, A. Sidoti^{23a,23b}, F. Siegert⁴⁶, Dj. Sijacki¹⁶, J. Silva^{137a}, M. Silva Jr.¹⁷⁸, M. V. Silva Oliveira^{78a}, S. B. Silverstein^{43a}, L. Simic⁷⁷, S. Simion¹²⁹, E. Simioni⁹⁷, M. Simon⁹⁷, R. Simoniello⁹⁷, P. Sinervo¹⁶⁴, N. B. Sinev¹²⁸, M. Sioli^{23a,23b}, G. Siragusa¹⁷⁴, I. Siral¹⁰³, S. Yu. Sivoklokov¹¹¹, J. Sjölin^{43a,43b}, P. Skubic¹²⁵, M. Slater²¹, T. Slavicek¹³⁹, M. Slawinska⁸², K. Sliwa¹⁶⁷, R. Slovak¹⁴⁰, V. Smakhtin¹⁷⁷, B. H. Smart⁵, J. Smiesko^{28a}, N. Smirnov¹¹⁰, S. Yu. Smirnov¹¹⁰, Y. Smirnov¹¹⁰, L. N. Smirnova¹¹¹, O. Smirnova⁹⁴, J. W. Smith⁵¹, M. N. K. Smith³⁸, M. Smizanska⁸⁷, K. Smolek¹³⁹, A. Smykiewicz⁸², A. A. Snesarev¹⁰⁸, I. M. Snyder¹²⁸, S. Snyder²⁹, R. Sobie^{173,ae}, A. M. Soffa¹⁶⁸, A. Soffer¹⁵⁸, A. Søgaard⁴⁸, D. A. Soh¹⁵⁵, G. Sokhrannyi⁸⁹, C. A. Solans Sanchez³⁵, M. Solar¹³⁹, E. Yu. Soldatov¹¹⁰, U. Soldevila¹⁷¹, A. A. Solodkov¹²¹, A. Soloshenko⁷⁷, O. V. Solovyyanov¹²¹, V. Solovyev¹³⁵, P. Sommer¹⁴⁶, H. Son¹⁶⁷, W. Song¹⁴¹, W. Y. Song^{165b}, A. Sopczak¹³⁹, F. Sopkova^{28b}, C. L. Sotiropoulou^{69a,69b}, S. Sottocornola^{68a,68b}, R. Soualah^{64a,64c,j}, A. M. Soukharev^{120a,120b}, D. South⁴⁴, B. C. Sowden⁹¹, S. Spagnolo^{65a,65b}, M. Spalla¹¹³, M. Spangenberg¹⁷⁵, F. Spanò⁹¹, D. Sperlich¹⁹, F. Spettel¹¹³, T. M. Spieker^{59a}, R. Spighi^{23b}, G. Spigo³⁵, L. A. Spiller¹⁰², D. P. Spiteri⁵⁵, M. Spousta¹⁴⁰, A. Stabile^{66a,66b}, R. Stamen^{59a}, S. Stamm¹⁹, E. Stanecka⁸², R. W. Stanek⁶, C. Stanescu^{72a}, B. Stanislaus¹³², M. M. Stanitzki⁴⁴, B. Stapp¹¹⁸, S. Stapnes¹³¹, E. A. Starchenko¹²¹, G. H. Stark³⁶, J. Stark⁵⁶, S. H Stark³⁹, P. Staroba¹³⁸, P. Starovoitov^{59a}, S. Stärz³⁵, R. Staszewski⁸², M. Stegler⁴⁴, P. Steinberg²⁹, B. Stelzer¹⁴⁹, H. J. Stelzer³⁵, O. Stelzer-Chilton^{165a}, H. Stenzel⁵⁴, T. J. Stevenson⁹⁰, G. A. Stewart³⁵, M. C. Stockton¹²⁸, G. Stoica^{27b}, P. Stolte⁵¹, S. Stonjek¹¹³, A. Straessner⁴⁶, J. Strandberg¹⁵¹, S. Strandberg^{43a,43b}, M. Strauss¹²⁵, P. Strizenec^{28b}, R. Ströhmer¹⁷⁴, D. M. Strom¹²⁸, R. Stroynowski⁴¹, A. Strubig⁴⁸, S. A. Stucci²⁹, B. Stugu¹⁷, J. Stupak¹²⁵, N. A. Styles⁴⁴, D. Su¹⁵⁰, J. Su¹³⁶, S. Suchek^{59a}, Y. Sugaya¹³⁰, M. Suk¹³⁹, V. V. Sulin¹⁰⁸, D. M. S. Sultan⁵², S. Sultansoy^{4c}, T. Sumida⁸³, S. Sun¹⁰³, X. Sun³, K. Suruliz¹⁵³, C. J. E. Suster¹⁵⁴, M. R. Sutton¹⁵³, S. Suzuki⁷⁹, M. Svatos¹³⁸, M. Swiatlowski³⁶, S. P. Swift², A. Sydorenko⁹⁷, I. Sykora^{28a}, T. Sykora¹⁴⁰, D. Ta⁹⁷, K. Tackmann^{44,ab}, J. Taenzer¹⁵⁸, A. Taffard¹⁶⁸, R. Tafirout^{165a}, E. Tahirovic⁹⁰, N. Taiblum¹⁵⁸, H. Takai²⁹, R. Takashima⁸⁴, E. H. Takasugi¹¹³, K. Takeda⁸⁰, T. Takeshita¹⁴⁷, Y. Takubo⁷⁹, M. Talby⁹⁹, A. A. Talyshев^{120a,120b}, J. Tanaka¹⁶⁰, M. Tanaka¹⁶², R. Tanaka¹²⁹, B. B. Tannenwald¹²³, S. Tapia Araya^{144b}, S. Tapprogge⁹⁷, A. Tarek Abouelfadl Mohamed¹³³, S. Tarem¹⁵⁷, G. Tarna^{27b,e}, G. F. Tartarelli^{66a}, P. Tas¹⁴⁰, M. Tasevsky¹³⁸, T. Tashiro⁸³, E. Tassi^{40a,40b}, A. Tavares Delgado^{137a,137b}, Y. Tayalati^{34e}, A. C. Taylor¹¹⁶, A. J. Taylor⁴⁸, G. N. Taylor¹⁰², P. T. E. Taylor¹⁰², W. Taylor^{165b}, A. S. Tee⁸⁷, P. Teixeira-Dias⁹¹, H. Ten Kate³⁵, P. K. Teng¹⁵⁵, J. J. Teoh¹¹⁸, S. Terada⁷⁹, K. Terashi¹⁶⁰, J. Terron⁹⁶, S. Terzo¹⁴, M. Testa⁴⁹, R. J. Teuscher^{164,ae}, S. J. Thais¹⁸⁰, T. Theveneaux-Pelzer⁴⁴, F. Thiele³⁹, D. W. Thomas⁹¹, J. P. Thomas²¹, A. S. Thompson⁵⁵, P. D. Thompson²¹, L. A. Thomsen¹⁸⁰, E. Thomson¹³⁴, Y. Tian³⁸, R. E. Ticse Torres⁵¹, V. O. Tikhomirov^{108,ap}, Yu. A. Tikhonov^{120a,120b}, S. Timoshenko¹¹⁰, P. Tipton¹⁸⁰, S. Tisserant⁹⁹, K. Todome¹⁶², S. Todorova-Nova⁵, S. Todt⁴⁶, J. Tojo⁸⁵, S. Tokár^{28a}, K. Tokushuku⁷⁹, E. Tolley¹²³, K. G. Tomiwa^{32c}, M. Tomoto¹¹⁵, L. Tompkins^{150,r}, K. Toms¹¹⁶, B. Tong⁵⁷, P. Tornambe⁵⁰, E. Torrence¹²⁸, H. Torres⁴⁶, E. Torró Pastor¹⁴⁵, C. Tosciiri¹³², J. Toth^{99,ad}, F. Touchard⁹⁹, D. R. Tovey¹⁴⁶, C. J. Treado¹²², T. Trefzger¹⁷⁴, F. Tresoldi¹⁵³, A. Tricoli²⁹, I. M. Trigger^{165a}, S. Trincatz-Duvoid¹³³, M. F. Tripiana¹⁴, W. Trischuk¹⁶⁴, B. Trocmé⁵⁶, A. Trofymov¹²⁹, C. Troncon^{66a}, M. Trovatelli¹⁷³, F. Trovato¹⁵³, L. Truong^{32b}, M. Trzebinski⁸², A. Trzupel⁸², F. Tsai⁴⁴, J. C.-L. Tseng¹³², P. V. Tsiareshka¹⁰⁵, A. Tsirigotis¹⁵⁹, N. Tsirintanis⁹, V. Tsiskaridze¹⁵², E. G. Tskhadadze^{156a}, I. I. Tsukerman¹⁰⁹, V. Tsulaia¹⁸, S. Tsuno⁷⁹, D. Tsybychev^{152,163}, Y. Tu^{61b}, A. Tudorache^{27b}, V. Tudorache^{27b}, T. T. Tulbure^{27a}, A. N. Tuna⁵⁷, S. Turchikhin⁷⁷, D. Turgeman¹⁷⁷, I. Turk Cakir^{4b,v}, R. Turra^{66a}, P. M. Tuts³⁸, E. Tzovara⁹⁷, G. Ucchielli^{23a,23b}, I. Ueda⁷⁹, M. Ughetto^{43a,43b}, F. Ukegawa¹⁶⁶, G. Unal³⁵, A. Undrus²⁹, G. Unel¹⁶⁸, F. C. Ungaro¹⁰², Y. Unno⁷⁹, K. Uno¹⁶⁰, J. Urban^{28b}, P. Urquijo¹⁰², P. Urrejola⁹⁷, G. Usai⁸, J. Usui⁷⁹, L. Vacavant⁹⁹, V. Vacek¹³⁹, B. Vachon¹⁰¹, K. O. H. Vadla¹³¹, A. Vaidya⁹², C. Valderanis¹¹², E. Valdes Santurio^{43a,43b}, M. Valente⁵², S. Valentinetto^{23a,23b}, A. Valero¹⁷¹, L. Valéry⁴⁴, R. A. Vallance²¹, A. Vallier⁵, J. A. Valls Ferrer¹⁷¹, T. R. Van Daalen¹⁴, H. Van der Graaf¹¹⁸, P. Van Gemmeren⁶, J. Van Nieuwkoop¹⁴⁹, I. Van Vulpen¹¹⁸, M. Vanadia^{71a,71b}, W. Vandelli³⁵, A. Vaniachine¹⁶³, P. Vankov¹¹⁸, R. Vari^{70a}, E. W. Varnes⁷, C. Varni^{53a,53b}, T. Varol⁴¹, D. Varouchas¹²⁹, K. E. Varvell¹⁵⁴, G. A. Vasquez^{144b}, J. G. Vasquez¹⁸⁰, F. Vazeille³⁷, D. Vazquez Furelos¹⁴, T. Vazquez Schroeder¹⁰¹, J. Veatch⁵¹, V. Vecchio^{72a,72b}, L. M. Veloce¹⁶⁴, F. Veloso^{137a,137c}, S. Veneziano^{70a}, A. Ventura^{65a,65b}, M. Venturi¹⁷³, N. Venturi³⁵, V. Vercesi^{68a}, M. Verducci^{72a,72b}, C. M. Vergel Infante⁷⁶, C. Vergis²⁴, W. Verkerke¹¹⁸, A. T. Vermeulen¹¹⁸, J. C. Vermeulen¹¹⁸, M. C. Vetterli^{149,av}, N. Viaux Maira^{144b}, M. Vicente Barreto Pinto⁵², I. Vichou^{170,*}, T. Vickey¹⁴⁶, O. E. Vickey Boeriu¹⁴⁶, G. H. A. Viehhauser¹³², S. Viel¹⁸, L. Vigani¹³², M. Villa^{23a,23b}, M. Villaplana Perez^{66a,66b},

- E. Vilucchi⁴⁹, M. G. Vincter³³, V. B. Vinogradov⁷⁷, A. Vishwakarma⁴⁴, C. Vittori^{23a,23b}, I. Vivarelli¹⁵³, S. Vlachos¹⁰, M. Vogel¹⁷⁹, P. Vokac¹³⁹, G. Volpi¹⁴, S. E. Von Buddenbrock^{32c}, E. von Toerne²⁴, V. Vorobel¹⁴⁰, K. Vorobei¹¹⁰, M. Vos¹⁷¹, J. H. Vossebeld⁸⁸, N. Vranjes¹⁶, M. Vranjes Milosavljevic¹⁶, V. Vrba¹³⁹, M. Vreeswijk¹¹⁸, T. Šfiligoj⁸⁹, R. Vuillermet³⁵, I. Vukotic³⁶, T. Ženiš^{28a}, L. Živković¹⁶, P. Wagner²⁴, W. Wagner¹⁷⁹, J. Wagner-Kuhr¹¹², H. Wahlberg⁸⁶, S. Wahrmund⁴⁶, K. Wakamiya⁸⁰, V. M. Walbrecht¹¹³, J. Walder⁸⁷, R. Walker¹¹², S. D. Walker⁹¹, W. Walkowiak¹⁴⁸, V. Wallangen^{43a,43b}, A. M. Wang⁵⁷, C. Wang^{58b,e}, F. Wang¹⁷⁸, H. Wang¹⁸, H. Wang³, J. Wang¹⁵⁴, J. Wang^{59b}, P. Wang⁴¹, Q. Wang¹²⁵, R.-J. Wang¹³³, R. Wang^{58a}, R. Wang⁶, S. M. Wang¹⁵⁵, T. Wang^{58a}, W. Wang^{15c,af}, W. X. Wang^{58a,af}, Y. Wang^{58a,am}, Z. Wang^{58c}, C. Wanotayaroj⁴⁴, A. Warburton¹⁰¹, C. P. Ward³¹, D. R. Wardrope⁹², A. Washbrook⁴⁸, P. M. Watkins²¹, A. T. Watson²¹, M. F. Watson²¹, G. Watts¹⁴⁵, S. Watts⁹⁸, B. M. Waugh⁹², A. F. Webb¹¹, S. Webb⁹⁷, C. Weber¹⁸⁰, M. S. Weber²⁰, S. A. Weber³³, S. M. Weber^{59a}, A. R. Weidberg¹³², B. Weinert⁶³, J. Weingarten⁴⁵, M. Weirich⁹⁷, C. Weiser⁵⁰, P. S. Wells³⁵, T. Wenaus²⁹, T. Wengler³⁵, S. Wenig³⁵, N. Wermes²⁴, M. D. Werner⁷⁶, P. Werner³⁵, M. Wessels^{59a}, T. D. Weston²⁰, K. Whalen¹²⁸, N. L. Whallon¹⁴⁵, A. M. Wharton⁸⁷, A. S. White¹⁰³, A. White⁸, M. J. White¹, R. White^{144b}, D. Whiteson¹⁶⁸, B. W. Whitmore⁸⁷, F. J. Wickens¹⁴¹, W. Wiedenmann¹⁷⁸, M. Wielaers¹⁴¹, C. Wiglesworth³⁹, L. A. M. Wiik-Fuchs⁵⁰, A. Wildauer¹¹³, F. Wilk⁹⁸, H. G. Wilkens³⁵, L. J. Wilkins⁹¹, H. H. Williams¹³⁴, S. Williams³¹, C. Willis¹⁰⁴, S. Willocq¹⁰⁰, J. A. Wilson²¹, I. Wingerter-Seez⁵, E. Winkels¹⁵³, F. Winkelmeier¹²⁸, O. J. Winston¹⁵³, B. T. Winter²⁴, M. Wittgen¹⁵⁰, M. Wobisch⁹³, A. Wolf⁹⁷, T. M. H. Wolf¹¹⁸, R. Wolff⁹⁹, M. W. Wolter⁸², H. Wolters^{137a,137c}, V. W. S. Wong¹⁷², N. L. Woods¹⁴³, S. D. Worm²¹, B. K. Wosiek⁸², K. W. Woźniak⁸², K. Wraight⁵⁵, M. Wu³⁶, S. L. Wu¹⁷⁸, X. Wu⁵², Y. Wu^{58a}, T. R. Wyatt⁹⁸, B. M. Wynne⁴⁸, S. Xella³⁹, Z. Xi¹⁰³, L. Xia¹⁷⁵, D. Xu^{15a}, H. Xu^{58a,e}, L. Xu²⁹, T. Xu¹⁴², W. Xu¹⁰³, B. Yabsley¹⁵⁴, S. Yacoob^{32a}, K. Yajima¹³⁰, D. P. Yallup⁹², D. Yamaguchi¹⁶², Y. Yamaguchi¹⁶², A. Yamamoto⁷⁹, T. Yamanaka¹⁶⁰, F. Yamane⁸⁰, M. Yamatani¹⁶⁰, T. Yamazaki¹⁶⁰, Y. Yamazaki⁸⁰, Z. Yan²⁵, H. J. Yang^{58c,58d}, H. T. Yang¹⁸, S. Yang⁷⁵, Y. Yang¹⁶⁰, Z. Yang¹⁷, W.-M. Yao¹⁸, Y. C. Yap⁴⁴, Y. Yasu⁷⁹, E. Yatsenko^{58c,58d}, J. Ye⁴¹, S. Ye²⁹, I. Yeletskikh⁷⁷, E. Yigitbasi²⁵, E. Yildirim⁹⁷, K. Yorita¹⁷⁶, K. Yoshihara¹³⁴, C. J. S. Young³⁵, C. Young¹⁵⁰, J. Yu⁸, J. Yu⁷⁶, X. Yue^{59a}, S. P. Y. Yuen²⁴, B. Zabinski⁸², G. Zacharis¹⁰, E. Zaffaroni⁵², R. Zaidan¹⁴, A. M. Zaitsev^{121,ao}, T. Zakareishvili^{156b}, N. Zakharchuk³³, J. Zalieckas¹⁷, S. Zambito⁵⁷, D. Zanzi³⁵, D. R. Zaripovas⁵⁵, S. V. Zeißner⁴⁵, C. Zeitnitz¹⁷⁹, G. Zemaityte¹³², J. C. Zeng¹⁷⁰, Q. Zeng¹⁵⁰, O. Zenin¹²¹, D. Zerwas¹²⁹, M. Zgubić¹³², D. F. Zhang^{58b}, D. Zhang¹⁰³, F. Zhang¹⁷⁸, G. Zhang^{58a}, H. Zhang^{15c}, J. Zhang⁶, L. Zhang^{15c}, L. Zhang^{58a}, M. Zhang¹⁷⁰, P. Zhang^{15c}, R. Zhang^{58a}, R. Zhang²⁴, X. Zhang^{58b}, Y. Zhang^{15d}, Z. Zhang¹²⁹, P. Zhao⁴⁷, X. Zhao⁴¹, Y. Zhao^{58b,129,ak}, Z. Zhao^{58a}, A. Zhemchugov⁷⁷, B. Zhou¹⁰³, C. Zhou¹⁷⁸, L. Zhou⁴¹, M. S. Zhou^{15d}, M. Zhou¹⁵², N. Zhou^{58c}, Y. Zhou⁷, C. G. Zhu^{58b}, H. L. Zhu^{58a}, H. Zhu^{15a}, J. Zhu¹⁰³, Y. Zhu^{58a}, X. Zhuang^{15a}, K. Zhukov¹⁰⁸, V. Zhulanov^{120a,120b}, A. Zibell¹⁷⁴, D. Ziemska⁶³, N. I. Zimine⁷⁷, S. Zimmermann⁵⁰, Z. Zinonos¹¹³, M. Zinser⁹⁷, M. Ziolkowski¹⁴⁸, G. Zobernig¹⁷⁸, A. Zoccoli^{23a,23b}, K. Zoch⁵¹, T. G. Zorbas¹⁴⁶, R. Zou³⁶, M. Zur Nedden¹⁹, L. Zwalski³⁵

¹ Department of Physics, University of Adelaide, Adelaide, Australia² Physics Department, SUNY Albany, Albany, NY, USA³ Department of Physics, University of Alberta, Edmonton, AB, Canada⁴ ^(a)Department of Physics, Ankara University, Ankara, Turkey; ^(b)Istanbul Aydin University, Istanbul, Turkey; ^(c)Division of Physics, TOBB University of Economics and Technology, Ankara, Turkey⁵ LAPP, Université Grenoble Alpes, Université Savoie Mont Blanc, CNRS/IN2P3, Annecy, France⁶ High Energy Physics Division, Argonne National Laboratory, Argonne, IL, USA⁷ Department of Physics, University of Arizona, Tucson, AZ, USA⁸ Department of Physics, University of Texas at Arlington, Arlington, TX, USA⁹ Physics Department, National and Kapodistrian University of Athens, Athens, Greece¹⁰ Physics Department, National Technical University of Athens, Zografou, Greece¹¹ Department of Physics, University of Texas at Austin, Austin, TX, USA¹² ^(a)Faculty of Engineering and Natural Sciences, Bahçeşehir University, Istanbul, Turkey; ^(b)Faculty of Engineering and Natural Sciences, Istanbul Bilgi University, Istanbul, Turkey; ^(c)Department of Physics, Bogazici University, Istanbul, Turkey; ^(d)Department of Physics Engineering, Gaziantep University, Gaziantep, Turkey¹³ Institute of Physics, Azerbaijan Academy of Sciences, Baku, Azerbaijan¹⁴ Institut de Física d'Altes Energies (IFAE), Barcelona Institute of Science and Technology, Barcelona, Spain¹⁵ ^(a)Institute of High Energy Physics, Chinese Academy of Sciences, Beijing, China; ^(b)Physics Department, Tsinghua University, Beijing, China; ^(c)Department of Physics, Nanjing University, Nanjing, China; ^(d)University of Chinese Academy of Science (UCAS), Beijing, China¹⁶ Institute of Physics, University of Belgrade, Belgrade, Serbia

- ¹⁷ Department for Physics and Technology, University of Bergen, Bergen, Norway
¹⁸ Physics Division, Lawrence Berkeley National Laboratory and University of California, Berkeley, CA, USA
¹⁹ Institut für Physik, Humboldt Universität zu Berlin, Berlin, Germany
²⁰ Albert Einstein Center for Fundamental Physics and Laboratory for High Energy Physics, University of Bern, Bern, Switzerland
²¹ School of Physics and Astronomy, University of Birmingham, Birmingham, UK
²² Centro de Investigaciones, Universidad Antonio Nariño, Bogotá, Colombia
²³ ^(a)Dipartimento di Fisica e Astronomia, Università di Bologna, Bologna, Italy; ^(b)INFN Sezione di Bologna, Bologna, Italy
²⁴ Physikalisches Institut, Universität Bonn, Bonn, Germany
²⁵ Department of Physics, Boston University, Boston, MA, USA
²⁶ Department of Physics, Brandeis University, Waltham, MA, USA
²⁷ ^(a)Transilvania University of Brasov, Brasov, Romania; ^(b)Horia Hulubei National Institute of Physics and Nuclear Engineering, Bucharest, Romania; ^(c)Department of Physics, Alexandru Ioan Cuza University of Iasi, Iasi, Romania; ^(d)Physics Department, National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania; ^(e)University Politehnica Bucharest, Bucharest, Romania; ^(f)West University in Timisoara, Timisoara, Romania
²⁸ ^(a)Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, Slovakia; ^(b)Department of Subnuclear Physics, Institute of Experimental Physics of the Slovak Academy of Sciences, Kosice, Slovak Republic
²⁹ Physics Department, Brookhaven National Laboratory, Upton, NY, USA
³⁰ Departamento de Física, Universidad de Buenos Aires, Buenos Aires, Argentina
³¹ Cavendish Laboratory, University of Cambridge, Cambridge, UK
³² ^(a)Department of Physics, University of Cape Town, Cape Town, South Africa; ^(b)Department of Mechanical Engineering Science, University of Johannesburg, Johannesburg, South Africa; ^(c)School of Physics, University of the Witwatersrand, Johannesburg, South Africa
³³ Department of Physics, Carleton University, Ottawa, ON, Canada
³⁴ ^(a)Faculté des Sciences Ain Chock, Réseau Universitaire de Physique des Hautes Energies-Université Hassan II, Casablanca, Morocco; ^(b)Centre National de l'Energie des Sciences Techniques Nucléaires (CNESTEN), Rabat, Morocco; ^(c)Faculté des Sciences Semlalia, Université Cadi Ayyad, LPHEA-Marrakech, Marrakech, Morocco; ^(d)Faculté des Sciences, Université Mohamed Premier and LPTPM, Oujda, Morocco; ^(e)Faculté des sciences, Université Mohammed V, Rabat, Morocco
³⁵ CERN, Geneva, Switzerland
³⁶ Enrico Fermi Institute, University of Chicago, Chicago, IL, USA
³⁷ LPC, Université Clermont Auvergne, CNRS/IN2P3, Clermont-Ferrand, France
³⁸ Nevis Laboratory, Columbia University, Irvington, NY, USA
³⁹ Niels Bohr Institute, University of Copenhagen, Copenhagen, Denmark
⁴⁰ ^(a)Dipartimento di Fisica, Università della Calabria, Rende, Italy; ^(b)INFN Gruppo Collegato di Cosenza, Laboratori Nazionali di Frascati, Frascati, Italy
⁴¹ Physics Department, Southern Methodist University, Dallas, TX, USA
⁴² Physics Department, University of Texas at Dallas, Richardson, TX, USA
⁴³ ^(a)Department of Physics, Stockholm University, Stockholm, Sweden; ^(b)Oskar Klein Centre, Stockholm, Sweden
⁴⁴ Deutsches Elektronen-Synchrotron DESY, Hamburg and Zeuthen, Germany
⁴⁵ Lehrstuhl für Experimentelle Physik IV, Technische Universität Dortmund, Dortmund, Germany
⁴⁶ Institut für Kern- und Teilchenphysik, Technische Universität Dresden, Dresden, Germany
⁴⁷ Department of Physics, Duke University, Durham, NC, USA
⁴⁸ SUPA-School of Physics and Astronomy, University of Edinburgh, Edinburgh, UK
⁴⁹ INFN e Laboratori Nazionali di Frascati, Frascati, Italy
⁵⁰ Physikalisches Institut, Albert-Ludwigs-Universität Freiburg, Freiburg, Germany
⁵¹ II. Physikalisches Institut, Georg-August-Universität Göttingen, Göttingen, Germany
⁵² Département de Physique Nucléaire et Corpusculaire, Université de Genève, Geneva, Switzerland
⁵³ ^(a)Dipartimento di Fisica, Università di Genova, Genoa, Italy; ^(b)INFN Sezione di Genova, Genoa, Italy
⁵⁴ II. Physikalisches Institut, Justus-Liebig-Universität Giessen, Giessen, Germany
⁵⁵ SUPA-School of Physics and Astronomy, University of Glasgow, Glasgow, UK

- ⁵⁶ LPSC, Université Grenoble Alpes, CNRS/IN2P3, Grenoble INP, Grenoble, France
⁵⁷ Laboratory for Particle Physics and Cosmology, Harvard University, Cambridge, MA, USA
⁵⁸ ^(a)Department of Modern Physics and State Key Laboratory of Particle Detection and Electronics, University of Science and Technology of China, Hefei, China; ^(b)Institute of Frontier and Interdisciplinary Science and Key Laboratory of Particle Physics and Particle Irradiation (MOE), Shandong University, Qingdao, China; ^(c)School of Physics and Astronomy, Shanghai Jiao Tong University, KLPPAC-MoE, SKLPPC, Shanghai, China; ^(d)Tsung-Dao Lee Institute, Shanghai, China
⁵⁹ ^(a)Kirchhoff-Institut für Physik, Ruprecht-Karls-Universität Heidelberg, Heidelberg, Germany; ^(b)Physikalisches Institut, Ruprecht-Karls-Universität Heidelberg, Heidelberg, Germany
⁶⁰ Faculty of Applied Information Science, Hiroshima Institute of Technology, Hiroshima, Japan
⁶¹ ^(a)Department of Physics, Chinese University of Hong Kong, Shatin, NT, Hong Kong; ^(b)Department of Physics, University of Hong Kong, Hong Kong, China; ^(c)Department of Physics and Institute for Advanced Study, Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong, China
⁶² Department of Physics, National Tsing Hua University, Hsinchu, Taiwan
⁶³ Department of Physics, Indiana University, Bloomington, IN, USA
⁶⁴ ^(a)INFN Gruppo Collegato di Udine, Sezione di Trieste, Udine, Italy; ^(b)ICTP, Trieste, Italy; ^(c)Dipartimento di Chimica, Fisica e Ambiente, Università di Udine, Udine, Italy
⁶⁵ ^(a)INFN Sezione di Lecce, Lecce, Italy; ^(b)Dipartimento di Matematica e Fisica, Università del Salento, Lecce, Italy
⁶⁶ ^(a)INFN Sezione di Milano, Milan, Italy; ^(b)Dipartimento di Fisica, Università di Milano, Milan, Italy
⁶⁷ ^(a)INFN Sezione di Napoli, Naples, Italy; ^(b)Dipartimento di Fisica, Università di Napoli, Naples, Italy
⁶⁸ ^(a)INFN Sezione di Pavia, Pavia, Italy; ^(b)Dipartimento di Fisica, Università di Pavia, Pavia, Italy
⁶⁹ ^(a)INFN Sezione di Pisa, Pisa, Italy; ^(b)Dipartimento di Fisica E. Fermi, Università di Pisa, Pisa, Italy
⁷⁰ ^(a)INFN Sezione di Roma, Rome, Italy; ^(b)Dipartimento di Fisica, Sapienza Università di Roma, Rome, Italy
⁷¹ ^(a)INFN Sezione di Roma Tor Vergata, Rome, Italy; ^(b)Dipartimento di Fisica, Università di Roma Tor Vergata, Rome, Italy
⁷² ^(a)INFN Sezione di Roma Tre, Rome, Italy; ^(b)Dipartimento di Matematica e Fisica, Università Roma Tre, Rome, Italy
⁷³ ^(a)INFN-TIFPA, Povo, Italy; ^(b)Università degli Studi di Trento, Trento, Italy
⁷⁴ Institut für Astro- und Teilchenphysik, Leopold-Franzens-Universität, Innsbruck, Austria
⁷⁵ University of Iowa, Iowa City, IA, USA
⁷⁶ Department of Physics and Astronomy, Iowa State University, Ames, IA, USA
⁷⁷ Joint Institute for Nuclear Research, Dubna, Russia
⁷⁸ ^(a)Departamento de Engenharia Elétrica, Universidade Federal de Juiz de Fora (UFJF), Juiz de Fora, Brazil; ^(b)Universidade Federal do Rio De Janeiro COPPE/EE/IF, Rio de Janeiro, Brazil; ^(c)Universidade Federal de São João del Rei (UFSJ), São João del Rei, Brazil; ^(d)Instituto de Física, Universidade de São Paulo, São Paulo, Brazil
⁷⁹ KEK, High Energy Accelerator Research Organization, Tsukuba, Japan
⁸⁰ Graduate School of Science, Kobe University, Kobe, Japan
⁸¹ ^(a)Faculty of Physics and Applied Computer Science, AGH University of Science and Technology, Kraków, Poland; ^(b)Marian Smoluchowski Institute of Physics, Jagiellonian University, Kraków, Poland
⁸² Institute of Nuclear Physics Polish Academy of Sciences, Kraków, Poland
⁸³ Faculty of Science, Kyoto University, Kyoto, Japan
⁸⁴ Kyoto University of Education, Kyoto, Japan
⁸⁵ Research Center for Advanced Particle Physics and Department of Physics, Kyushu University, Fukuoka, Japan
⁸⁶ Instituto de Física La Plata, Universidad Nacional de La Plata and CONICET, La Plata, Argentina
⁸⁷ Physics Department, Lancaster University, Lancaster, UK
⁸⁸ Oliver Lodge Laboratory, University of Liverpool, Liverpool, UK
⁸⁹ Department of Experimental Particle Physics, Jožef Stefan Institute and Department of Physics, University of Ljubljana, Ljubljana, Slovenia
⁹⁰ School of Physics and Astronomy, Queen Mary University of London, London, UK
⁹¹ Department of Physics, Royal Holloway University of London, Egham, UK
⁹² Department of Physics and Astronomy, University College London, London, UK
⁹³ Louisiana Tech University, Ruston, LA, USA
⁹⁴ Fysiska institutionen, Lunds universitet, Lund, Sweden

- ⁹⁵ Centre de Calcul de l’Institut National de Physique Nucléaire et de Physique des Particules (IN2P3), Villeurbanne, France
- ⁹⁶ Departamento de Física Teórica C-15 and CIAFF, Universidad Autónoma de Madrid, Madrid, Spain
- ⁹⁷ Institut für Physik, Universität Mainz, Mainz, Germany
- ⁹⁸ School of Physics and Astronomy, University of Manchester, Manchester, UK
- ⁹⁹ CPPM, Aix-Marseille Université, CNRS/IN2P3, Marseille, France
- ¹⁰⁰ Department of Physics, University of Massachusetts, Amherst, MA, USA
- ¹⁰¹ Department of Physics, McGill University, Montreal, QC, Canada
- ¹⁰² School of Physics, University of Melbourne, Parkville, VIC, Australia
- ¹⁰³ Department of Physics, University of Michigan, Ann Arbor, MI, USA
- ¹⁰⁴ Department of Physics and Astronomy, Michigan State University, East Lansing, MI, USA
- ¹⁰⁵ B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus
- ¹⁰⁶ Research Institute for Nuclear Problems of Byelorussian State University, Minsk, Belarus
- ¹⁰⁷ Group of Particle Physics, University of Montreal, Montreal, QC, Canada
- ¹⁰⁸ P.N. Lebedev Physical Institute of the Russian Academy of Sciences, Moscow, Russia
- ¹⁰⁹ Institute for Theoretical and Experimental Physics (ITEP), Moscow, Russia
- ¹¹⁰ National Research Nuclear University MEPhI, Moscow, Russia
- ¹¹¹ D.V. Skobeltsyn Institute of Nuclear Physics, M.V. Lomonosov Moscow State University, Moscow, Russia
- ¹¹² Fakultät für Physik, Ludwig-Maximilians-Universität München, Munich, Germany
- ¹¹³ Max-Planck-Institut für Physik (Werner-Heisenberg-Institut), Munich, Germany
- ¹¹⁴ Nagasaki Institute of Applied Science, Nagasaki, Japan
- ¹¹⁵ Graduate School of Science and Kobayashi-Maskawa Institute, Nagoya University, Nagoya, Japan
- ¹¹⁶ Department of Physics and Astronomy, University of New Mexico, Albuquerque, NM, USA
- ¹¹⁷ Institute for Mathematics, Astrophysics and Particle Physics, Radboud University Nijmegen/Nikhef, Nijmegen, The Netherlands
- ¹¹⁸ Nikhef National Institute for Subatomic Physics, University of Amsterdam, Amsterdam, The Netherlands
- ¹¹⁹ Department of Physics, Northern Illinois University, De Kalb, IL, USA
- ¹²⁰ ^(a)Budker Institute of Nuclear Physics and NSU, SB RAS, Novosibirsk, Russia; ^(b)Novosibirsk State University, Novosibirsk, Russia
- ¹²¹ Institute for High Energy Physics of the National Research Centre Kurchatov Institute, Protvino, Russia
- ¹²² Department of Physics, New York University, New York, NY, USA
- ¹²³ Ohio State University, Columbus, OH, USA
- ¹²⁴ Faculty of Science, Okayama University, Okayama, Japan
- ¹²⁵ Homer L. Dodge Department of Physics and Astronomy, University of Oklahoma, Norman, OK, USA
- ¹²⁶ Department of Physics, Oklahoma State University, Stillwater, OK, USA
- ¹²⁷ Palacký University, RCPTM, Joint Laboratory of Optics, Olomouc, Czech Republic
- ¹²⁸ Center for High Energy Physics, University of Oregon, Eugene, OR, USA
- ¹²⁹ LAL, Université Paris-Sud, CNRS/IN2P3, Université Paris-Saclay, Orsay, France
- ¹³⁰ Graduate School of Science, Osaka University, Osaka, Japan
- ¹³¹ Department of Physics, University of Oslo, Oslo, Norway
- ¹³² Department of Physics, Oxford University, Oxford, UK
- ¹³³ LPNHE, Sorbonne Université, Paris Diderot Sorbonne Paris Cité, CNRS/IN2P3, Paris, France
- ¹³⁴ Department of Physics, University of Pennsylvania, Philadelphia, PA, USA
- ¹³⁵ Konstantinov Nuclear Physics Institute of National Research Centre “Kurchatov Institute”, PNPI, St. Petersburg, Russia
- ¹³⁶ Department of Physics and Astronomy, University of Pittsburgh, Pittsburgh, PA, USA
- ¹³⁷ ^(a)Laboratório de Instrumentação e Física Experimental de Partículas-LIP, Lisbon, Portugal; ^(b)Departamento de Física, Faculdade de Ciências, Universidade de Lisboa, Lisbon, Portugal; ^(c)Departamento de Física, Universidade de Coimbra, Coimbra, Portugal; ^(d)Centro de Física Nuclear da Universidade de Lisboa, Lisbon, Portugal; ^(e)Departamento de Física, Universidade do Minho, Braga, Portugal; ^(f)Departamento de Física Teórica y del Cosmos, Universidad de Granada, Granada, Spain; ^(g)Dep Física and CEFITEC of Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal
- ¹³⁸ Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic
- ¹³⁹ Czech Technical University in Prague, Prague, Czech Republic

- ¹⁴⁰ Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic
¹⁴¹ Particle Physics Department, Rutherford Appleton Laboratory, Didcot, UK
¹⁴² IRFU, CEA, Université Paris-Saclay, Gif-sur-Yvette, France
¹⁴³ Santa Cruz Institute for Particle Physics, University of California Santa Cruz, Santa Cruz, CA, USA
¹⁴⁴ ^(a)Departamento de Física, Pontificia Universidad Católica de Chile, Santiago, Chile; ^(b)Departamento de Física, Universidad Técnica Federico Santa María, Valparaíso, Chile
¹⁴⁵ Department of Physics, University of Washington, Seattle, WA, USA
¹⁴⁶ Department of Physics and Astronomy, University of Sheffield, Sheffield, UK
¹⁴⁷ Department of Physics, Shinshu University, Nagano, Japan
¹⁴⁸ Department Physik, Universität Siegen, Siegen, Germany
¹⁴⁹ Department of Physics, Simon Fraser University, Burnaby, BC, Canada
¹⁵⁰ SLAC National Accelerator Laboratory, Stanford, CA, USA
¹⁵¹ Physics Department, Royal Institute of Technology, Stockholm, Sweden
¹⁵² Departments of Physics and Astronomy, Stony Brook University, Stony Brook, NY, USA
¹⁵³ Department of Physics and Astronomy, University of Sussex, Brighton, UK
¹⁵⁴ School of Physics, University of Sydney, Sydney, Australia
¹⁵⁵ Institute of Physics, Academia Sinica, Taipei, Taiwan
¹⁵⁶ ^(a)E. Andronikashvili Institute of Physics, Iv. Javakhishvili Tbilisi State University, Tbilisi, Georgia; ^(b)High Energy Physics Institute, Tbilisi State University, Tbilisi, Georgia
¹⁵⁷ Department of Physics, Technion, Israel Institute of Technology, Haifa, Israel
¹⁵⁸ Raymond and Beverly Sackler School of Physics and Astronomy, Tel Aviv University, Tel Aviv, Israel
¹⁵⁹ Department of Physics, Aristotle University of Thessaloniki, Thessaloníki, Greece
¹⁶⁰ International Center for Elementary Particle Physics and Department of Physics, University of Tokyo, Tokyo, Japan
¹⁶¹ Graduate School of Science and Technology, Tokyo Metropolitan University, Tokyo, Japan
¹⁶² Department of Physics, Tokyo Institute of Technology, Tokyo, Japan
¹⁶³ Tomsk State University, Tomsk, Russia
¹⁶⁴ Department of Physics, University of Toronto, Toronto, ON, Canada
¹⁶⁵ ^(a)TRIUMF, Vancouver, BC, Canada; ^(b)Department of Physics and Astronomy, York University, Toronto, ON, Canada
¹⁶⁶ Division of Physics and Tomonaga Center for the History of the Universe, Faculty of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Japan
¹⁶⁷ Department of Physics and Astronomy, Tufts University, Medford, MA, USA
¹⁶⁸ Department of Physics and Astronomy, University of California Irvine, Irvine, CA, USA
¹⁶⁹ Department of Physics and Astronomy, University of Uppsala, Uppsala, Sweden
¹⁷⁰ Department of Physics, University of Illinois, Urbana, IL, USA
¹⁷¹ Instituto de Física Corpuscular (IFIC), Centro Mixto Universidad de Valencia, CSIC, Valencia, Spain
¹⁷² Department of Physics, University of British Columbia, Vancouver, BC, Canada
¹⁷³ Department of Physics and Astronomy, University of Victoria, Victoria, BC, Canada
¹⁷⁴ Fakultät für Physik und Astronomie, Julius-Maximilians-Universität Würzburg, Würzburg, Germany
¹⁷⁵ Department of Physics, University of Warwick, Coventry, UK
¹⁷⁶ Waseda University, Tokyo, Japan
¹⁷⁷ Department of Particle Physics, Weizmann Institute of Science, Rehovot, Israel
¹⁷⁸ Department of Physics, University of Wisconsin, Madison, WI, USA
¹⁷⁹ Fakultät für Mathematik und Naturwissenschaften, Fachgruppe Physik, Bergische Universität Wuppertal, Wuppertal, Germany
¹⁸⁰ Department of Physics, Yale University, New Haven, CT, USA
¹⁸¹ Yerevan Physics Institute, Yerevan, Armenia

^a Also at Borough of Manhattan Community College, City University of New York, NY, USA

^b Also at California State University, East Bay, USA

^c Also at Centre for High Performance Computing, CSIR Campus, Rosebank, Cape Town, South Africa

^d Also at CERN, Geneva, Switzerland

^e Also at CPPM, Aix-Marseille Université, CNRS/IN2P3, Marseille, France

^f Also at Département de Physique Nucléaire et Corpusculaire, Université de Genève, Geneva, Switzerland

- ^g Also at Departament de Física de la Universitat Autònoma de Barcelona, Barcelona, Spain
^h Also at Departamento de Física Teórica y del Cosmos, Universidad de Granada, Granada (Spain), Spain
ⁱ Also at Departamento de Física, Instituto Superior Técnico, Universidade de Lisboa, Lisbon, Portugal
^j Also at Department of Applied Physics and Astronomy, University of Sharjah, Sharjah, United Arab Emirates
^k Also at Department of Financial and Management Engineering, University of the Aegean, Chios, Greece
^l Also at Department of Physics and Astronomy, University of Louisville, Louisville, KY, USA
^m Also at Department of Physics and Astronomy, University of Sheffield, Sheffield, UK
ⁿ Also at Department of Physics, California State University, Fresno, CA, USA
^o Also at Department of Physics, California State University, Sacramento, CA, USA
^p Also at Department of Physics, King's College London, London, UK
^q Also at Department of Physics, St. Petersburg State Polytechnical University, St. Petersburg, Russia
^r Also at Department of Physics, Stanford University, USA
^s Also at Department of Physics, University of Fribourg, Fribourg, Switzerland
^t Also at Department of Physics, University of Michigan, Ann Arbor, MI, USA
^u Also at Dipartimento di Fisica E. Fermi, Università di Pisa, Pisa, Italy
^v Also at Giresun University, Faculty of Engineering, Giresun, Turkey
^w Also at Graduate School of Science, Osaka University, Osaka, Japan
^x Also at Hellenic Open University, Patras, Greece
^y Also at Horia Hulubei National Institute of Physics and Nuclear Engineering, Bucharest, Romania
^z Also at II Physikalisches Institut, Georg-August-Universität Göttingen, Göttingen, Germany
^{aa} Also at Institutio Catalana de Recerca i Estudis Avancats, ICREA, Barcelona, Spain
^{ab} Also at Institut für Experimentalphysik, Universität Hamburg, Hamburg, Germany
^{ac} Also at Institute for Mathematics, Astrophysics and Particle Physics, Radboud University Nijmegen/Nikhef, Nijmegen, The Netherlands
^{ad} Also at Institute for Particle and Nuclear Physics, Wigner Research Centre for Physics, Budapest, Hungary
^{ae} Also at Institute of Particle Physics (IPP), Canada
^{af} Also at Institute of Physics, Academia Sinica, Taipei, Taiwan
^{ag} Also at Institute of Physics, Azerbaijan Academy of Sciences, Baku, Azerbaijan
^{ah} Also at Institute of Theoretical Physics, Ilia State University, Tbilisi, Georgia
^{ai} Also at Instituto de Física Teórica de la Universidad Autónoma de Madrid, Spain
^{aj} Also at Istanbul University, Dept. of Physics, Istanbul, Turkey
^{ak} Also at LAL, Université Paris-Sud, CNRS/IN2P3, Université Paris-Saclay, Orsay, France
^{al} Also at Louisiana Tech University, Ruston, LA, USA
^{am} Also at LPNHE, Sorbonne Université, Paris Diderot Sorbonne Paris Cité, CNRS/IN2P3, Paris, France
^{an} Also at Manhattan College, New York, NY, USA
^{ao} Also at Moscow Institute of Physics and Technology State University, Dolgoprudny, Russia
^{ap} Also at National Research Nuclear University MEPhI, Moscow, Russia
^{aq} Also at Physikalisches Institut, Albert-Ludwigs-Universität Freiburg, Freiburg, Germany
^{ar} Also at School of Physics, Sun Yat-sen University, Guangzhou, China
^{as} Also at The City College of New York, New York, NY, USA
^{at} Also at The Collaborative Innovation Center of Quantum Matter (CICQM), Beijing, China
^{au} Also at Tomsk State University, Tomsk, and Moscow Institute of Physics and Technology State University, Dolgoprudny, Russia
^{av} Also at TRIUMF, Vancouver, BC, Canada
^{aw} Also at Universita di Napoli Parthenope, Naples, Italy
* Deceased