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Erratum to: Measurement of the W boson polarisation in $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV in the lepton + jets channel with ATLAS

ATLAS Collaboration*

CERN, 1211 Geneva 23, Switzerland

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A bug in the code used to calculate the total correlation coefficients between the W boson helicity fractions obtained using the leptonic analyser in semileptonic $t\bar{t}$ events in the region with ≥ 2 b -tags was found. It led to quoting incorrect correlation coefficients in the original paper.

The correct correlation coefficients are $\rho_{F_0, F_L} = -0.82$, $\rho_{F_0, F_R} = -0.97$ and $\rho_{F_L, F_R} = +0.65$. This change does not have any impact on the measured helicity fractions, but it changes the obtained limits on the anomalous couplings.

The correct limits on the anomalous couplings (Table 5) and the corresponding plots (Fig. 6a, b) are:

Table 5 Allowed ranges for the anomalous couplings V_R , g_L , and g_R at 95% CL. The limits are derived using the measured W helicity fractions using the leptonic analyser for events with ≥ 2 b -tags (combination of the two channels, electron and muon)

Coupling	95% CL interval
V_R	$[-0.17, 0.25]$
g_L	$[-0.11, 0.08]$
g_R	$[-0.03, 0.06], [0.74, 0.78]$

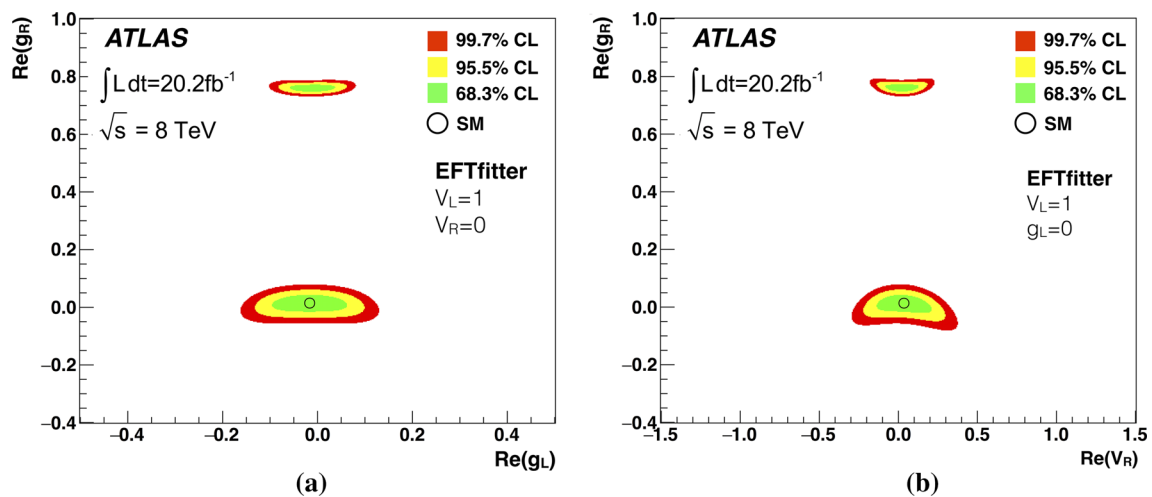


Fig. 6 **a** Limits on the anomalous left- and right-handed tensor couplings of the Wtb decay vertex as obtained from the measured W boson helicity fractions from the leptonic analyser. **b** Limits on the right-handed vector and tensor coupling. As the couplings are assumed to be real, the real part corresponds to the magnitude. Unconsidered couplings are fixed to their SM values

The original article can be found online at <https://doi.org/10.1140/epjc/s10052-017-4819-4>.

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

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ATLAS Collaboration

M. Aaboud^{137d}, G. Aad⁸⁸, B. Abbott¹¹⁵, J. Abdallah⁸, O. Abdinov¹², B. Abeloos¹¹⁹, O. S. AbouZeid¹³⁹, N. L. Abraham¹⁵¹, H. Abramowicz¹⁵⁵, H. Abreu¹⁵⁴, R. Abreu¹¹⁸, Y. Abulaiti^{148a,148b}, B. S. Acharya^{167a,167b,a}, S. Adachi¹⁵⁷, L. Adamczyk^{41a}, D. L. Adams²⁷, J. Adelman¹¹⁰, S. Adomeit¹⁰², T. Adye¹³³, A. A. Affolder¹³⁹, T. Agatonovic-Jovin¹⁴, J. A. Aguilar-Saavedra^{128a,128f}, S. P. Ahlen²⁴, F. Ahmadov^{68,b}, G. Aielli^{135a,135b}, H. Akerstedt^{148a,148b}, T. P. A. Åkesson⁸⁴, A. V. Akimov⁹⁸, G. L. Alberghi^{22a,22b}, J. Albert¹⁷², S. Albrand⁵⁸, M. J. Alconada Verzini⁷⁴, M. Aleksa³², I. N. Aleksandrov⁶⁸, C. Alexa^{28b}, G. Alexander¹⁵⁵, T. Alexopoulos¹⁰, M. Alhroob¹¹⁵, B. Ali¹³⁰, M. Aliev^{76a,76b}, G. Alimonti^{94a}, J. Alison³³, S. P. Alkire³⁸, B. M. M. Allbrooke¹⁵¹, B. W. Allen¹¹⁸, P. P. Allport¹⁹, A. Aloisio^{106a,106b}, A. Alonso³⁹, F. Alonso⁷⁴, C. Alpigiani¹⁴⁰, A. A. Alshehri⁵⁶, M. Alstary⁸⁸, B. Alvarez Gonzalez³², D. Álvarez Piqueras¹⁷⁰, M. G. Alviggi^{106a,106b}, B. T. Amadio¹⁶, Y. Amaral Coutinho^{26a}, C. Amelung²⁵, D. Amidei⁹², S. P. Amor Dos Santos^{128a,128c}, A. Amorim^{128a,128b}, S. Amoroso³², G. Amundsen²⁵, C. Anastopoulos¹⁴¹, L. S. Ancu⁵², N. Andari¹⁹, T. Andeen¹¹, C. F. Anders^{60b}, J. K. Anders⁷⁷, K. J. Anderson³³, A. Andreazza^{94a,94b}, V. Andrei^{60a}, S. Angelidakis⁹, I. Angelozzi¹⁰⁹, A. Angerami³⁸, F. Anghinolfi³², A. V. Anisenkov^{111.c}, N. Anjos¹³, A. Annovi^{126a,126b}, C. Antel^{60a}, M. Antonelli⁵⁰, A. Antonov^{100,*}, D. J. Antrim¹⁶⁶, F. Anulli^{134a}, M. Aoki⁶⁹, L. Aperio Bella¹⁹, G. Arabidze⁹³, Y. Arai⁶⁹, J. P. Araque^{128a}, V. Araujo Ferraz^{26a}, A. T. H. Arce⁴⁸, F. A. Arduh⁷⁴, J-F. Arguin⁹⁷, S. Argyropoulos⁶⁶, M. Arik^{20a}, A. J. Armbruster¹⁴⁵, L. J. Armitage⁷⁹, O. Arnaez³², H. Arnold⁵¹, M. Arratia³⁰, O. Arslan²³, A. Artamonov⁹⁹, G. Artoni¹²², S. Artz⁸⁶, S. Asai¹⁵⁷, N. Asbah⁴⁵, A. Ashkenazi¹⁵⁵, B. Åsman^{148a,148b}, L. Asquith¹⁵¹, K. Assamagan²⁷, R. Astalos^{146a}, M. Atkinson¹⁶⁹, N. B. Atlay¹⁴³, K. Augsten¹³⁰, G. Avolio³², B. Axen¹⁶, M. K. Ayoub¹¹⁹, G. Azuelos^{97,d}, M. A. Baak³², A. E. Baas^{60a}, M. J. Baca¹⁹, H. Bachacou¹³⁸, K. Bachas^{76a,76b}, M. Backes¹²², M. Backhaus³², P. Bagiacchi^{134a,134b}, P. Bagnaia^{134a,134b}, Y. Bai^{35a}, J. T. Baines¹³³, M. Bajic³⁹, O. K. Baker¹⁷⁹, E. M. Baldwin^{111.c}, P. Balek¹⁷⁵, T. Balestri¹⁵⁰, F. Balli¹³⁸, W. K. Balunas¹²⁴, E. Banas⁴², Sw. Banerjee^{176,e}, A. A. E. Bannoura¹⁷⁸, L. Barak³², E. L. Barberio⁹¹, D. Barberis^{53a,53b}, M. Barbero⁸⁸, T. Barillari¹⁰³, M-S. Barisits³², T. Barklow¹⁴⁵, N. Barlow³⁰, S. L. Barnes⁸⁷, B. M. Barnett¹³³, R. M. Barnett¹⁶, Z. Barnovska-Blenessy^{36a}, A. Baroncelli^{136a}, G. Barone²⁵, A. J. Barr¹²², L. Barranco Navarro¹⁷⁰, F. Barreiro⁸⁵, J. Barreiro Guimarães da Costa^{35a}, R. Bartoldus¹⁴⁵, A. E. Barton⁷⁵, P. Bartos^{146a}, A. Basalae¹²⁵, A. Bassalat^{119,f}, R. L. Bates⁵⁶, S. J. Batista¹⁶¹, J. R. Batley³⁰, M. Battaglia¹³⁹, M. Baue^{134a,134b}, F. Bauer¹³⁸, H. S. Bawa^{145,g}, J. B. Beacham¹¹³, M. D. Beattie⁷⁵, T. Beau⁸³, P. H. Beauchemin¹⁶⁵, P. Bechtel²³, H. P. Beck^{18,h}, K. Becker¹²², M. Becker⁸⁶, M. Beckingham¹⁷³, C. Becot¹¹², A. J. Beddall^{20d}, A. Beddall^{20b}, V. A. Bednyakov⁶⁸, M. Bedognetti¹⁰⁹, C. P. Bee¹⁵⁰, L. J. Beemster¹⁰⁹, T. A. Beermann³², M. Begel²⁷, J. K. Behr⁴⁵, A. S. Bell⁸¹, G. Bella¹⁵⁵, L. Bellagamba^{22a}, A. Bellerive³¹, M. Bellomo⁸⁹, K. Belotskiy¹⁰⁰, O. Beltramello³², N. L. Belyaev¹⁰⁰, O. Benary^{155,*}, D. Bencheekroun^{137a}, M. Bender¹⁰², K. Bendtz^{148a,148b}, N. Benekos¹⁰, Y. Benhammou¹⁵⁵, E. Benhar Nocchioli¹⁷⁹, J. Benitez⁶⁶, D. P. Benjamin⁴⁸, J. R. Bensinger²⁵, S. Bentvelsen¹⁰⁹, L. Beresford¹²², M. Beretta⁵⁰, D. Berge¹⁰⁹, E. Bergeas Kuutmann¹⁶⁸, N. Berger⁵, J. Beringer¹⁶, S. Berlendis⁵⁸, N. R. Bernard⁸⁹, C. Bernius¹¹², F. U. Bernlochner²³, T. Berry⁸⁰, P. Berta¹³¹, C. Bertella⁸⁶, G. Bertoli^{148a,148b}, F. Bertolucci^{126a,126b}, I. A. Bertram⁷⁵, C. Bertsche⁴⁵, D. Bertsche¹¹⁵, G. J. Besjes³⁹, O. Bessidskaia Bylund^{148a,148b}, M. Bessner⁴⁵, N. Besson¹³⁸, C. Betancourt⁵¹, A. Bethani⁵⁸, S. Bethke¹⁰³, A. J. Bevan⁷⁹, R. M. Bianchi¹²⁷, M. Bianco³², O. Biebel¹⁰², D. Biedermann¹⁷, R. Bielski⁸⁷, N. V. Biesuz^{126a,126b}, M. Biglietti^{136a}, J. Bilbao De Mendizabal⁵², T. R. V. Billoud⁹⁷, H. Bilokon⁵⁰, M. Bindi⁵⁷, A. Bingul^{20b}, C. Bini^{134a,134b}, S. Biondi^{22a,22b}, T. Bisanz⁵⁷, D. M. Bjergaard⁴⁸, C. W. Black¹⁵², J. E. Black¹⁴⁵, K. M. Black²⁴, D. Blackburn¹⁴⁰, R. E. Blair⁶, T. Blazek^{146a}, I. Bloch⁴⁵, C. Blocker²⁵, A. Blue⁵⁶, W. Blum^{86,*}, U. Blumenschein⁵⁷, S. Blunier^{34a}, G. J. Bobbink¹⁰⁹, V. S. Bobrovnikov^{111.c}, S. S. Bocchetta⁸⁴, A. Bocchi⁴⁸, C. Bock¹⁰², M. Boehler⁵¹, D. Boerner¹⁷⁸, J. A. Bogaerts³², D. Bogavac¹⁰², A. G. Bogdanchikov¹¹¹, C. Böhm^{148a}, V. Boisvert⁸⁰, P. Bokan¹⁴, T. Bold^{41a}, A. S. Boldyrev¹⁰¹, M. Bomben⁸³, M. Bona⁷⁹, M. Boonekamp¹³⁸, A. Borisov¹³², G. Borissov⁷⁵, J. Bortfeldt³², D. Bortoletto¹²², V. Bortolotto^{62a,62b,62c}, K. Bos¹⁰⁹, D. Boscherini^{22a}, M. Bosman¹³, J. D. Bossio Sola²⁹, J. Boudreau¹²⁷, J. Bouffard², E. V. Bouhova-Thacker⁷⁵, D. Boumediene³⁷, C. Bourdarios¹¹⁹, S. K. Boutle⁵⁶, A. Boveia¹¹³, J. Boyd³², I. R. Boyko⁶⁸, J. Bracinik¹⁹, A. Brandt⁸, G. Brandt⁵⁷, O. Brandt^{60a}, U. Bratzler¹⁵⁸, B. Brau⁸⁹, J. E. Brau¹¹⁸, W. D. Breaden Madden⁵⁶, K. Brendlinger¹²⁴, A. J. Brennan⁹¹, L. Brenner¹⁰⁹, R. Brenner¹⁶⁸, S. Bressler¹⁷⁵, T. M. Bristow⁴⁹, D. Britton⁵⁶, D. Britzger⁴⁵, F. M. Brochu³⁰, I. Brock²³, R. Brock⁹³, G. Brooijmans³⁸, T. Brooks⁸⁰, W. K. Brooks^{34b}, J. Brosamer¹⁶, E. Brost¹¹⁰, J. H. Broughton¹⁹, P. A. Bruckman de Renstrom⁴², D. Bruncko^{146b}, R. Bruneliere⁵¹, A. Bruni^{22a}, G. Bruni^{22a}, L. S. Bruni¹⁰⁹, B. H. Brunt³⁰, M. Bruschi^{22a}, N. Bruscino²³, P. Bryant³³, L. Bryngemark⁸⁴, T. Buanes¹⁵, Q. Buat¹⁴⁴, P. Buchholz¹⁴³, A. G. Buckley⁵⁶, I. A. Budagov⁶⁸, F. Buehrer⁵¹, M. K. Bugge¹²¹, O. Bulekov¹⁰⁰, D. Bullock⁸, H. Burckhart³², S. Burdin⁷⁷, C. D. Burgard⁵¹, A. M. Burger⁵, B. Burghgrave¹¹⁰, K. Burka⁴², S. Burke¹³³, I. Burmeister⁴⁶, J. T. P. Burr¹²², E. Busato³⁷, D. Büscher⁵¹, V. Büscher⁸⁶, P. Bussey⁵⁶, J. M. Butler²⁴, C. M. Buttar⁵⁶, J. M. Butterworth⁸¹, P. Butti¹⁰⁹, W. Buttinger²⁷, A. Buzatu⁵⁶, A. R. Buzykaev^{111.c}, S. Cabrera Urbán¹⁷⁰, D. Caforio¹³⁰

V. M. Cairo^{40a,40b}, O. Cakir^{4a}, N. Calace⁵², P. Calafiura¹⁶, A. Calandri⁸⁸, G. Calderini⁸³, P. Calfayan⁶⁴, G. Callea^{40a,40b}, L. P. Caloba^{26a}, S. Calvente Lopez⁸⁵, D. Calvet³⁷, S. Calvet³⁷, T. P. Calvet⁸⁸, R. Camacho Toro³³, S. Camarda³², P. Camarri^{135a,135b}, D. Cameron¹²¹, R. Caminal Armadans¹⁶⁹, C. Camincher⁵⁸, S. Campana³², M. Campanelli⁸¹, A. Camplani^{94a,94b}, A. Campoverde¹⁴³, V. Canale^{106a,106b}, A. Canepa^{163a}, M. Cano Bret^{36c}, J. Cantero¹¹⁶, T. Cao¹⁵⁵, M. D. M. Capeans Garrido³², I. Caprini^{28b}, M. Caprini^{28b}, M. Capua^{40a,40b}, R. M. Carbone³⁸, R. Cardarelli^{135a}, F. Cardillo⁵¹, I. Carli¹³¹, T. Carli³², G. Carlino^{106a}, B. T. Carlson¹²⁷, L. Carminati^{94a,94b}, R. M. D. Carney^{148a,148b}, S. Caron¹⁰⁸, E. Carquin^{34b}, G. D. Carrillo-Montoya³², J. R. Carter³⁰, J. Carvalho^{128a,128c}, D. Casadei¹⁹, M. P. Casado^{13,i}, M. Casolino¹³, D. W. Casper¹⁶⁶, E. Castaneda-Miranda^{147a}, R. Castelijin¹⁰⁹, A. Castelli¹⁰⁹, V. Castillo Gimenez¹⁷⁰, N. F. Castro^{128a,j}, A. Catinaccio³², J. R. Catmore¹²¹, A. Cattai³², J. Caudron²³, V. Cavaliere¹⁶⁹, E. Cavallaro¹³, D. Cavalli^{94a}, M. Cavalli-Sforza¹³, V. Cavasinni^{126a,126b}, F. Ceradini^{136a,136b}, L. Cerda Alberich¹⁷⁰, A. S. Cerqueira^{26b}, A. Cerri¹⁵¹, L. Cerrito^{135a,135b}, F. Cerutti¹⁶, A. Cervelli¹⁸, S. A. Cetin^{20c}, A. Chafaq^{137a}, D. Chakraborty¹¹⁰, S. K. Chan⁵⁹, Y. L. Chan^{62a}, P. Chang¹⁶⁹, J. D. Chapman³⁰, D. G. Charlton¹⁹, A. Chatterjee⁵², C. C. Chau¹⁶¹, C. A. Chavez Barajas¹⁵¹, S. Che¹¹³, S. Cheatham^{167a,167c}, A. Chegwiddden⁹³, S. Chekanov⁶, S. V. Chekulaev^{163a}, G. A. Chelkov^{68,k}, M. A. Chelstowska⁹², C. Chen⁶⁷, H. Chen²⁷, S. Chen^{35b}, S. Chen¹⁵⁷, X. Chen^{35c}, Y. Chen⁷⁰, H. C. Cheng⁹², H. J. Cheng^{35a}, Y. Cheng³³, A. Cheplakov⁶⁸, E. Cheremushkina¹³², R. Cherkaoui El Moursli^{137e}, V. Chernyatin^{27,*}, E. Cheu⁷, L. Chevalier¹³⁸, V. Chiarella⁵⁰, G. Chiarelli^{126a,126b}, G. Chiodini^{76a}, A. S. Chisholm³², A. Chitan^{28b}, M. V. Chizhov⁶⁸, K. Choi⁶⁴, A. R. Chomont³⁷, S. Chouridou⁹, B. K. B. Chow¹⁰², V. Christodoulou⁸¹, D. Chromek-Burckhart³², J. Chudoba¹²⁹, A. J. Chuinard⁹⁰, J. J. Chwastowski⁴², L. Chytka¹¹⁷, A. K. Ciftci^{4a}, D. Cinca⁴⁶, V. Cindro⁷⁸, I. A. Cioara²³, C. Ciocca^{22a,22b}, A. Ciocio¹⁶, F. Ciotto^{106a,106b}, Z. H. Citron¹⁷⁵, M. Citterio^{94a}, M. Ciubancan^{28b}, A. Clark⁵², B. L. Clark⁵⁹, M. R. Clark³⁸, P. J. Clark⁴⁹, R. N. Clarke¹⁶, C. Clement^{148a,148b}, Y. Coadou⁸⁸, M. Cobal^{167a,167c}, A. Coccaro⁵², J. Cochran⁶⁷, L. Colasurdo¹⁰⁸, B. Cole³⁸, A. P. Colijn¹⁰⁹, J. Collot⁵⁸, T. Colombo¹⁶⁶, P. Conde Muiño^{128a,128b}, E. Coniavitis⁵¹, S. H. Connell^{147b}, I. A. Connelly⁸⁰, V. Consorti⁵¹, S. Constantinescu^{28b}, G. Conti³², F. Conventi^{106a,l}, M. Cooke¹⁶, B. D. Cooper⁸¹, A. M. Cooper-Sarkar¹²², F. Cormier¹⁷¹, K. J. R. Cormier¹⁶¹, T. Cornelissen¹⁷⁸, M. Corradi^{134a,134b}, F. Corriveau^{90,m}, A. Cortes-Gonzalez³², G. Cortiana¹⁰³, G. Costa^{94a}, M. J. Costa¹⁷⁰, D. Costanzo¹⁴¹, G. Cottin³⁰, G. Cowan⁸⁰, B. E. Cox⁸⁷, K. Cranmer¹¹², S. J. Crawley⁵⁶, G. Cree³¹, S. Crépe-Renaudin⁵⁸, F. Crescioli⁸³, W. A. Cribbs^{148a,148b}, M. Crispin Ortuzar¹²², M. Cristinziani²³, V. Croft¹⁰⁸, G. Crosetti^{40a,40b}, A. Cueto⁸⁵, T. Cuhadar Donszelmann¹⁴¹, J. Cummings¹⁷⁹, M. Curatolo⁵⁰, J. Cúth⁸⁶, H. Czirz¹⁴³, P. Czodrowski³, G. D'amen^{22a,22b}, S. D'Auria⁵⁶, M. D'Onofrio⁷⁷, M. J. Da Cunha Sargedas De Sousa^{128a,128b}, C. Da Via⁸⁷, W. Dabrowski^{41a}, T. Dado^{146a}, T. Dai⁹², O. Dale¹⁵, F. Dallaire⁹⁷, C. Dallapiccola⁸⁹, M. Dam³⁹, J. R. Dandoy³³, N. P. Dang⁵¹, A. C. Daniells¹⁹, N. S. Dann⁸⁷, M. Danninger¹⁷¹, M. Dano Hoffmann¹³⁸, V. Dao⁵¹, G. Darbo^{53a}, S. Darmora⁸, J. Dassoulas³, A. Dattagupta¹¹⁸, W. Davey²³, C. David⁴⁵, T. Davidek¹³¹, M. Davies¹⁵⁵, P. Davison⁸¹, E. Dawe⁹¹, I. Dawson¹⁴¹, K. De⁸, R. de Asmundis^{106a}, A. De Benedetti¹¹⁵, S. De Castro^{22a,22b}, S. De Cecco⁸³, N. De Groot¹⁰⁸, P. de Jong¹⁰⁹, H. De la Torre⁹³, F. De Lorenzi⁶⁷, A. De Maria⁵⁷, D. De Pedis^{134a}, A. De Salvo^{134a}, U. De Sanctis¹⁵¹, A. De Santo¹⁵¹, J. B. De Vivie De Regie¹¹⁹, W. J. Dearnaley⁷⁵, R. Debbe²⁷, C. Debenedetti¹³⁹, D. V. Dedovich⁶⁸, N. Dehghanian³, I. Deigaard¹⁰⁹, M. Del Gaudio^{40a,40b}, J. Del Peso⁸⁵, T. Del Prete^{126a,126b}, D. Delgove¹¹⁹, F. Deliot¹³⁸, C. M. Delitzsch⁵², A. Dell'Acqua³², L. Dell'Asta²⁴, M. Dell'Orso^{126a,126b}, M. Della Pietra^{106a,l}, D. della Volpe⁵², M. Delmastro⁵, P. A. Delsart⁵⁸, D. A. DeMarco¹⁶¹, S. Demers¹⁷⁹, M. Demichev⁶⁸, A. Demilly⁸³, S. P. Denisov¹³², D. Denysiuk¹³⁸, D. Derendarz⁴², J. E. Derkaoui^{137d}, F. Derue⁸³, P. Dervan⁷⁷, K. Desch²³, C. Deterre⁴⁵, K. Dette⁴⁶, P. O. Deviveiros³², A. Dewhurst¹³³, S. Dhaliwal²⁵, A. Di Ciaccio^{135a,135b}, L. Di Ciaccio⁵, W. K. Di Clemente¹²⁴, C. Di Donato^{106a,106b}, A. Di Girolamo³², B. Di Girolamo³², B. Di Micco^{136a,136b}, R. Di Nardo³², K. F. Di Petrillo⁵⁹, A. Di Simone⁵¹, R. Di Sipio¹⁶¹, D. Di Valentino³¹, C. Diaconu⁸⁸, M. Diamond¹⁶¹, F. A. Dias⁴⁹, M. A. Diaz^{34a}, E. B. Diehl⁹², J. Dietrich¹⁷, S. Díez Cornell⁴⁵, A. Dimitrievska¹⁴, J. Dingfelder²³, P. Dita^{28b}, S. Dita^{28b}, F. Dittus³², F. Djama⁸⁸, T. Djobava^{54b}, J. I. Djuvsland^{60a}, M. A. B. do Vale^{26c}, D. Dobos³², M. Dobre^{28b}, C. Doglioni⁸⁴, J. Dolejsi¹³¹, Z. Dolezal¹³¹, M. Donadelli^{26d}, S. Donati^{126a,126b}, P. Dondero^{123a,123b}, J. Donini³⁷, J. Dopke¹³³, A. Doria^{106a}, M. T. Dova⁷⁴, A. T. Doyle⁵⁶, E. Drechsler⁵⁷, M. Dris¹⁰, Y. Du^{36b}, J. Duarte-Campderros¹⁵⁵, E. Duchovni¹⁷⁵, G. Duckeck¹⁰², O. A. Ducu^{97,n}, D. Duda¹⁰⁹, A. Dudarev³², A. Chr. Dudder⁸⁶, E. M. Duffield¹⁶, L. Duflot¹¹⁹, M. Dührssen³², M. Dumancic¹⁷⁵, A. K. Duncan⁵⁶, M. Dunford^{60a}, H. Duran Yildiz^{4a}, M. Düren⁵⁵, A. Durglishvili^{54b}, D. Duschinger⁴⁷, B. Dutta⁴⁵, M. Dyndal⁴⁵, C. Eckardt⁴⁵, K. M. Ecker¹⁰³, R. C. Edgar⁹², N. C. Edwards⁴⁹, T. Eifert³², G. Eigen¹⁵, K. Einsweiler¹⁶, T. Ekelof¹⁶⁸, M. El Kacimi^{137c}, V. Ellajosyula⁸⁸, M. Ellert¹⁶⁸, S. Elles⁵, F. Ellinghaus¹⁷⁸, A. A. Elliot¹⁷², N. Ellis³², J. Elmsheuser²⁷, M. Elsing³², D. Emeliyanov¹³³, Y. Enari¹⁵⁷, O. C. Endner⁸⁶, J. S. Ennis¹⁷³, J. Erdmann⁴⁶, A. Ereditato¹⁸, G. Ernis¹⁷⁸, J. Ernst², M. Ernst²⁷, S. Errede¹⁶⁹, E. Ertel⁸⁶, M. Escalier¹¹⁹, H. Esch⁴⁶, C. Escobar¹²⁷, B. Esposito⁵⁰, A. I. Etienvre¹³⁸, E. Etzion¹⁵⁵, H. Evans⁶⁴, A. Ezhilov¹²⁵, M. Ezzi^{137e}, F. Fabbri^{22a,22b}, L. Fabbri^{22a,22b}, G. Facini³³, R. M. Fakhruddinov¹³², S. Falciano^{134a}, R. J. Falla⁸¹, J. Faltova³², Y. Fang^{35a}, M. Fanti^{94a,94b}, A. Farbin⁸

A. Farilla^{136a}, C. Farina¹²⁷, E. M. Farina^{123a,123b}, T. Faroouque¹³, S. Farrell¹⁶, S. M. Farrington¹⁷³, P. Farthouat³², F. Fassi^{137e}, P. Fassnacht³², D. Fassouliotis⁹, M. Fauci Giannelli⁸⁰, A. Favareto^{53a,53b}, W. J. Fawcett¹²², L. Fayard¹¹⁹, O. L. Fedin^{125,o}, W. Fedorko¹⁷¹, S. Feigl¹²¹, L. Feligioni⁸⁸, C. Feng^{36b}, E. J. Feng³², H. Feng⁹², A. B. Fenyuk¹³², L. Feremenga⁸, P. Fernandez Martinez¹⁷⁰, S. Fernandez Perez¹³, J. Ferrando⁴⁵, A. Ferrari¹⁶⁸, P. Ferrari¹⁰⁹, R. Ferrari^{123a}, D. E. Ferreira de Lima^{60b}, A. Ferrer¹⁷⁰, D. Ferrere⁵², C. Ferretti⁹², F. Fiedler⁸⁶, A. Filipčić⁷⁸, M. Filipuzzi⁴⁵, F. Filthaut¹⁰⁸, M. Fincke-Keeler¹⁷², K. D. Finelli¹⁵², M. C. N. Fiolhais^{128a,128c}, L. Fiorini¹⁷⁰, A. Fischer², C. Fischer¹³, J. Fischer¹⁷⁸, W. C. Fisher⁹³, N. Flaschel⁴⁵, I. Fleck¹⁴³, P. Fleischmann⁹², G. T. Fletcher¹⁴¹, R. R. M. Fletcher¹²⁴, T. Flick¹⁷⁸, B. M. Flierl¹⁰², L. R. Flores Castillo^{62a}, M. J. Flowerdew¹⁰³, G. T. Forcolin⁸⁷, A. Formica¹³⁸, A. Forti⁸⁷, A. G. Foster¹⁹, D. Fournier¹¹⁹, H. Fox⁷⁵, S. Fracchia¹³, P. Francavilla⁸³, M. Franchini^{22a,22b}, D. Francis³², L. Franconi¹²¹, M. Franklin⁵⁹, M. Frate¹⁶⁶, M. Fraternali^{123a,123b}, D. Freeborn⁸¹, S. M. Fressard-Batraneanu³², F. Friedrich⁴⁷, D. Froidevaux³², J. A. Frost¹²², C. Fukunaga¹⁵⁸, E. Fullana Torregrosa⁸⁶, T. Fusayasu¹⁰⁴, J. Fuster¹⁷⁰, C. Gabaldon⁵⁸, O. Gabizon¹⁵⁴, A. Gabrielli^{22a,22b}, A. Gabrielli¹⁶, G. P. Gach^{41a}, S. Gadatsch³², G. Gagliardi^{53a,53b}, L. G. Gagnon⁹⁷, P. Gagnon⁶⁴, C. Galea¹⁰⁸, B. Galhardo^{128a,128c}, E. J. Gallas¹²², B. J. Gallop¹³³, P. Gallus¹³⁰, G. Galster³⁹, K. K. Gan¹¹³, S. Ganguly³⁷, J. Gao^{36a}, Y. Gao⁴⁹, Y. S. Gao^{145,g}, F. M. Garay Walls⁴⁹, C. García¹⁷⁰, J. E. García Navarro¹⁷⁰, M. Garcia-Sciveres¹⁶, R. W. Gardner³³, N. Garelli¹⁴⁵, V. Garonne¹²¹, A. Gascon Bravo⁴⁵, K. Gasnikova⁴⁵, C. Gatti⁵⁰, A. Gaudiello^{53a,53b}, G. Gaudio^{123a}, L. Gauthier⁹⁷, I. L. Gavrilenko⁹⁸, C. Gay¹⁷¹, G. Gaycken²³, E. N. Gazis¹⁰, Z. Gece¹⁷¹, C. N. P. Gee¹³³, Ch. Geich-Gimbel²³, M. Geisen⁸⁶, M. P. Geisler^{60a}, K. Gellerstedt^{148a,148b}, C. Gemme^{53a}, M. H. Genest⁵⁸, C. Geng^{36a,p}, S. Gentile^{134a,134b}, C. Gentsos¹⁵⁶, S. George⁸⁰, D. Gerbaudo¹³, A. Gershon¹⁵⁵, S. Ghasemi¹⁴³, M. Ghneimat²³, B. Giacobbe^{22a}, S. Giagu^{134a,134b}, P. Giannetti^{126a,126b}, S. M. Gibson⁸⁰, M. Gignac¹⁷¹, M. Gilchriese¹⁶, T. P. S. Gillam³⁰, D. Gillberg³¹, G. Gilles¹⁷⁸, D. M. Gingrich^{3,d}, N. Giokaris^{9,*}, M. P. Giordani^{167a,167c}, F. M. Giorgi^{22a}, P. F. Giraud¹³⁸, P. Giromini⁵⁹, D. Giugni^{94a}, F. Giuli¹²², C. Giuliani¹⁰³, M. Giulini^{60b}, B. K. Gjelsten¹²¹, S. Gkaitatzis¹⁵⁶, I. Gkialas¹⁵⁶, E. L. Gkoukousis¹³⁹, L. K. Gladilin¹⁰¹, C. Glasman⁸⁵, J. Glatzer¹³, P. C. F. Glaysher⁴⁹, A. Glazov⁴⁵, M. Goblirsch-Kolb²⁵, J. Godlewski⁴², S. Goldfarb⁹¹, T. Golling⁵², D. Golubkov¹³², A. Gomes^{128a,128b,128d}, R. Gonçalo^{128a}, R. Goncalves Gama^{26a}, J. Goncalves Pinto Firmino Da Costa¹³⁸, G. Gonella⁵¹, L. Gonella¹⁹, A. Gongadze⁶⁸, S. González de la Hoz¹⁷⁰, S. Gonzalez-Sevilla⁵², L. Goossens³², P. A. Gorbounov⁹⁹, H. A. Gordon²⁷, I. Gorelov¹⁰⁷, B. Gorini³², E. Gorini^{76a,76b}, A. Gorišek⁷⁸, A. T. Goshaw⁴⁸, C. Gössling⁴⁶, M. I. Gostkin⁶⁸, C. R. Goudet¹¹⁹, D. Goujdami^{137c}, A. G. Goussiou¹⁴⁰, N. Govender^{147b,q}, E. Gozani¹⁵⁴, L. Graber⁵⁷, I. Grabowska-Bold^{41a}, P. O. J. Gradin⁵⁸, P. Grafström^{22a,22b}, J. Gramling⁵², E. Gramstad¹²¹, S. Grancagnolo¹⁷, V. Gratchev¹²⁵, P. M. Gravila^{28e}, H. M. Gray³², E. Graziani^{136a}, Z. D. Greenwood^{82,r}, C. Greife²³, K. Gregersen⁸¹, I. M. Gregor⁴⁵, P. Grenier¹⁴⁵, K. Grevtsov⁵, J. Griffiths⁸, A. A. Grillo¹³⁹, K. Grimm⁷⁵, S. Grinstein^{13,s}, Ph. Gris³⁷, J. -F. Grivaz¹¹⁹, S. Groh⁸⁶, E. Gross¹⁷⁵, J. Grosse-Knetter⁵⁷, G. C. Grossi⁸², Z. J. Grout⁸¹, L. Guan⁹², W. Guan¹⁷⁶, J. Guenther⁶⁵, F. Guescini⁵², D. Guest¹⁶⁶, O. Gueta¹⁵⁵, B. Gui¹¹³, E. Guido^{53a,53b}, T. Guillemin⁵, S. Guindon², U. Gul⁵⁶, C. Gumpert³², J. Guo^{36c}, W. Guo⁹², Y. Guo^{36a,p}, R. Gupta⁴³, S. Gupta¹²², G. Gustavino^{134a,134b}, P. Gutierrez¹¹⁵, N. G. Gutierrez Ortiz⁸¹, C. Gutschow⁸¹, C. Guyot¹³⁸, C. Gwenlan¹²², C. B. Gwilliam⁷⁷, A. Haas¹¹², C. Haber¹⁶, H. K. Hadavand⁸, N. Haddad^{137e}, A. Hader⁸⁸, S. Hageböck²³, M. Hagihara¹⁶⁴, H. Hakobyan^{180,*}, M. Haleem⁴⁵, J. Haley¹¹⁶, G. Halladjian⁹³, G. D. Hallewell⁸⁸, K. Hamacher¹⁷⁸, P. Hamal¹¹⁷, K. Hamano¹⁷², A. Hamilton^{147a}, G. N. Hamity¹⁴¹, P. G. Hamnett⁴⁵, L. Han^{36a}, S. Han^{35a}, K. Hanagaki^{69,t}, K. Hanawa¹⁵⁷, M. Hance¹³⁹, B. Haney¹²⁴, P. Hanke^{60a}, R. Hanna¹³⁸, J. B. Hansen³⁹, J. D. Hansen³⁹, M. C. Hansen²³, P. H. Hansen³⁹, K. Hara¹⁶⁴, A. S. Hard¹⁷⁶, T. Harenberg¹⁷⁸, F. Hariri¹¹⁹, S. Harkusha⁹⁵, R. D. Harrington⁴⁹, P. F. Harrison¹⁷³, F. Hartjes¹⁰⁹, N. M. Hartmann¹⁰², M. Hasegawa⁷⁰, Y. Hasegawa¹⁴², A. Hasib¹¹⁵, S. Hassani¹³⁸, S. Haug¹⁸, R. Hauser⁹³, L. Hauswald⁴⁷, M. Havranek¹²⁹, C. M. Hawkes¹⁹, R. J. Hawkins³², D. Hayakawa¹⁵⁹, D. Hayden⁹³, C. P. Hays¹²², J. M. Hays⁷⁹, H. S. Hayward⁷⁷, S. J. Haywood¹³³, S. J. Head¹⁹, T. Heck⁸⁶, V. Hedberg⁸⁴, L. Heelan⁸, S. Heim¹²⁴, T. Heim¹⁶, B. Heinemann⁴⁵, J. J. Heinrich¹⁰², L. Heinrich¹¹², C. Heinz⁵⁵, J. Hejbal¹²⁹, L. Helary³², S. Hellman^{148a,148b}, C. Helsens³², J. Henderson¹²², R. C. W. Henderson⁷⁵, Y. Heng¹⁷⁶, S. Henkelmann¹⁷¹, A. M. Henriques Correia³², S. Henrot-Versille¹¹⁹, G. H. Herbert¹⁷, H. Herde²⁵, V. Herget¹⁷⁷, Y. Hernández Jiménez^{147c}, G. Herten⁵¹, R. Hertenberger¹⁰², L. Hervas³², G. G. Hesketh⁸¹, N. P. Hessey¹⁰⁹, J. W. Hetherly⁴³, E. Higón-Rodríguez¹⁷⁰, E. Hill¹⁷², J. C. Hill³⁰, K. H. Hiller⁴⁵, S. J. Hillier¹⁹, I. Hinchliffe¹⁶, E. Hines¹²⁴, M. Hirose⁵¹, D. Hirschbuehl¹⁷⁸, O. Hladik¹²⁹, X. Hoad⁴⁹, J. Hobbs¹⁵⁰, N. Hod^{163a}, M. C. Hodgkinson¹⁴¹, P. Hodgson¹⁴¹, A. Hoecker³², M. R. Hoefkamp¹⁰⁷, F. Hoenig¹⁰², D. Hohn²³, T. R. Holmes¹⁶, M. Homann⁴⁶, S. Honda¹⁶⁴, T. Honda⁶⁹, T. M. Hong¹²⁷, B. H. Hooberman¹⁶⁹, W. H. Hopkins¹¹⁸, Y. Horii¹⁰⁵, A. J. Horton¹⁴⁴, J.-Y. Hostachy⁵⁸, S. Hou¹⁵³, A. Hoummada^{137a}, J. Howarth⁴⁵, J. Hoya⁷⁴, M. Hrabovsky¹¹⁷, I. Hristova¹⁷, J. Hrivnac¹¹⁹, T. Hryn'ova⁵, A. Hrynevich⁹⁶, P. J. Hsu⁶³, S. -C. Hsu¹⁴⁰, Q. Hu^{36a}, S. Hu^{36c}, Y. Huang⁴⁵, Z. Hubacek¹³⁰, F. Hubaut⁸⁸, F. Huegging²³, T. B. Huffman¹²², E. W. Hughes³⁸, G. Hughes⁷⁵, M. Huhtinen³², P. Huo¹⁵⁰, N. Huseynov^{68,b}, J. Huston⁹³, J. Huth⁵⁹, G. Iacobucci⁵², G. Iakovidis²⁷, I. Ibragimov¹⁴³, L. Iconomidou-Fayard¹¹⁹, E. Ideal¹⁷⁹, Z. Idrissi^{137e}, P. Ingo³², O. Igonkina^{109,u}, T. Iizawa¹⁷⁴, Y. Ikegami⁶⁹, M. Ikeno⁶⁹, Y. Ilchenko^{11,v}

D. Iliadis¹⁵⁶, N. Ilic¹⁴⁵, G. Introzzi^{123a,123b}, P. Ioannou^{9,*}, M. Iodice^{136a}, K. Iordanidou³⁸, V. Ippolito⁵⁹, N. Ishijima¹²⁰, M. Ishino¹⁵⁷, M. Ishitsuka¹⁵⁹, C. Issever¹²², S. Istin^{20a}, F. Ito¹⁶⁴, J. M. Iturbe Ponce⁸⁷, R. Iuppa^{162a,162b}, H. Iwasaki⁶⁹, J. M. Izen⁴⁴, V. Izzo^{106a}, S. Jabbar³, B. Jackson¹²⁴, P. Jackson¹, V. Jain², K. B. Jakobi⁸⁶, K. Jakobs⁵¹, S. Jakobsen³², T. Jakoubek¹²⁹, D. O. Jamin¹¹⁶, D. K. Jana⁸², R. Jansky⁶⁵, J. Janssen²³, M. Janus⁵⁷, P. A. Janus^{41a}, G. Jarlskog⁸⁴, N. Javadov^{68,b}, T. Javůrek⁵¹, F. Jeanneau¹³⁸, L. Jeanty¹⁶, J. Jejelava^{54a,w}, G.-Y. Jeng¹⁵², P. Jenni^{51,x}, C. Jeske¹⁷³, S. Jézéquel⁵, H. Ji¹⁷⁶, J. Jia¹⁵⁰, H. Jiang⁶⁷, Y. Jiang^{36a}, Z. Jiang¹⁴⁵, S. Jiggins⁸¹, J. Jimenez Pena¹⁷⁰, S. Jin^{35a}, A. Jinaru^{28b}, O. Jinnouchi¹⁵⁹, H. Jivan^{147c}, P. Johansson¹⁴¹, K. A. Johns⁷, C. A. Johnson⁶⁴, W. J. Johnson¹⁴⁰, K. Jon-And^{148a,148b}, G. Jones¹⁷³, R. W. L. Jones⁷⁵, S. Jones⁷, T. J. Jones⁷⁷, J. Jongmanns^{60a}, P. M. Jorge^{128a,128b}, J. Jovicevic^{163a}, X. Ju¹⁷⁶, A. Juste Rozas^{13,s}, M. K. Köhler¹⁷⁵, A. Kaczmarska⁴², M. Kado¹¹⁹, H. Kagan¹¹³, M. Kagan¹⁴⁵, S. J. Kahn⁸⁸, T. Kaji¹⁷⁴, E. Kajomovitz⁴⁸, C. W. Kalderon¹²², A. Kaluza⁸⁶, S. Kama⁴³, A. Kamenshchikov¹³², N. Kanaya¹⁵⁷, S. Kaneti³⁰, L. Kanjir⁷⁸, V. A. Kantserov¹⁰⁰, J. Kanzaki⁶⁹, B. Kaplan¹¹², L. S. Kaplan¹⁷⁶, A. Kapliy³³, D. Kar^{147c}, K. Karakostas¹⁰, A. Karamaoun³, N. Karastathis¹⁰, M. J. Kareem⁵⁷, E. Karentzos¹⁰, S. N. Karpov⁶⁸, Z. M. Karpova⁶⁸, K. Karthik¹¹², V. Kartvelishvili⁷⁵, A. N. Karyukhin¹³², K. Kasahara¹⁶⁴, L. Kashif¹⁷⁶, R. D. Kass¹¹³, A. Kastanas¹⁴⁹, Y. Kataoka¹⁵⁷, C. Kato¹⁵⁷, A. Katre⁵², J. Katzy⁴⁵, K. Kawade¹⁰⁵, K. Kawagoe⁷³, T. Kawamoto¹⁵⁷, G. Kawamura⁵⁷, V. F. Kazanin^{111,c}, R. Keeler¹⁷², R. Kehoe⁴³, J. S. Keller⁴⁵, J. J. Kempster⁸⁰, H. Keoshkerian¹⁶¹, O. Kepka¹²⁹, B. P. Kerševan⁷⁸, S. Kersten¹⁷⁸, R. A. Keyes⁹⁰, M. Khader¹⁶⁹, F. Khalil-zada¹², A. Khanov¹¹⁶, A. G. Kharlamov^{111,c}, T. Kharlamova¹¹¹, T. J. Khoo⁵², V. Khovanskiy⁹⁹, E. Khramov⁶⁸, J. Khubua^{54b,y}, S. Kido⁷⁰, C. R. Kilby⁸⁰, H. Y. Kim⁸, S. H. Kim¹⁶⁴, Y. K. Kim³³, N. Kimura¹⁵⁶, O. M. Kind¹⁷, B. T. King⁷⁷, M. King¹⁷⁰, J. Kirk¹³³, A. E. Kiryunin¹⁰³, T. Kishimoto¹⁵⁷, D. Kisielewska^{41a}, F. Kiss⁵¹, K. Kiuchi¹⁶⁴, O. Kivernyk¹³⁸, E. Kladiva^{146b}, T. Klapdor-kleingrothaus⁵¹, M. H. Klein³⁸, M. Klein⁷⁷, U. Klein⁷⁷, K. Kleinknecht⁸⁶, P. Klimek¹¹⁰, A. Klimentov²⁷, R. Klingenberg⁴⁶, T. Klioutchnikova³², E.-E. Kluge^{60a}, P. Kluit¹⁰⁹, S. Kluth¹⁰³, J. Knapik⁴², E. Kneringer⁶⁵, E. B. F. G. Knoops⁸⁸, A. Knue¹⁰³, A. Kobayashi¹⁵⁷, D. Kobayashi¹⁵⁹, T. Kobayashi¹⁵⁷, M. Kobel⁴⁷, M. Kocian¹⁴⁵, P. Kodys¹³¹, T. Koffas³¹, E. Koffeman¹⁰⁹, N. M. Köhler¹⁰³, T. Koi¹⁴⁵, H. Kolanoski¹⁷, M. Kolb^{60b}, I. Koletsou⁵, A. A. Komar^{98,*}, Y. Komori¹⁵⁷, T. Kondo⁶⁹, N. Kondrashova^{36c}, K. Köneke⁵¹, A. C. König¹⁰⁸, T. Kono^{69,z}, R. Konoplich^{112,aa}, N. Konstantinidis⁸¹, R. Kopeliansky⁶⁴, S. Koperny^{41a}, A. K. Kopp⁵¹, K. Korcyl⁴², K. Kordas¹⁵⁶, A. Korn⁸¹, A. A. Korol^{111,c}, I. Korolkov¹³, E. V. Korolkova¹⁴¹, O. Kortner¹⁰³, S. Kortner¹⁰³, T. Kosek¹³¹, V. V. Kostyukhin²³, A. Kotwal⁴⁸, A. Koulouris¹⁰, A. Kourkoumeli-Charalampidi^{123a,123b}, C. Kourkoumelis⁹, V. Kouskoura²⁷, A. B. Kowalewska⁴², R. Kowalewski¹⁷², T. Z. Kowalski^{41a}, C. Kozakai¹⁵⁷, W. Kozanecki¹³⁸, A. S. Kozhin¹³², V. A. Kramarenko¹⁰¹, G. Kramberger⁷⁸, D. Krasnoperov¹⁰⁰, M. W. Krasny⁸³, A. Krasznahorkay³², A. Kravchenko²⁷, M. Kretz^{60c}, J. Kretzschmar⁷⁷, K. Kreutzfeldt⁵⁵, P. Krieger¹⁶¹, K. Krizka³³, K. Kroeninger⁴⁶, H. Kroha¹⁰³, J. Kroll¹²⁴, J. Kroseberg²³, J. Krstic¹⁴, U. Kruchonak⁶⁸, H. Krüger²³, N. Krumnack⁶⁷, M. C. Kruse⁴⁸, M. Kruskal²⁴, T. Kubota⁹¹, H. Kucuk⁸¹, S. Kuday^{4b}, J. T. Kuechler¹⁷⁸, S. Kuehn⁵¹, A. Kugel^{60c}, F. Kuger¹⁷⁷, T. Kuhl⁴⁵, V. Kukhtin⁶⁸, R. Kukla¹³⁸, Y. Kulchitsky⁹⁵, S. Kuleshov^{34b}, M. Kuna^{134a,134b}, T. Kunigo⁷¹, A. Kupco¹²⁹, O. Kuprash¹⁵⁵, H. Kurashige⁷⁰, L. L. Kurchaninov^{163a}, Y. A. Kurochkin⁹⁵, M. G. Kurth⁴⁴, V. Kus¹²⁹, E. S. Kuwertz¹⁷², M. Kuze¹⁵⁹, J. Kvita¹¹⁷, T. Kwan¹⁷², D. Kyriazopoulos¹⁴¹, A. La Rosa¹⁰³, J. L. La Rosa Navarro^{26d}, L. La Rotonda^{40a,40b}, C. Lacasta¹⁷⁰, F. Lacava^{134a,134b}, J. Lacey³¹, H. Lacker¹⁷, D. Lacour⁸³, E. Ladygin⁶⁸, R. Lafaye⁵, B. Laforge⁸³, T. Lagouri¹⁷⁹, S. Lai⁵⁷, S. Lammers⁶⁴, W. Lampl⁷, E. Lançon¹³⁸, U. Landgraf⁵¹, M. P. J. Landon⁷⁹, M. C. Lanfermann⁵², V. S. Lang^{60a}, J. C. Lange¹³, A. J. Lankford¹⁶⁶, F. Lanni²⁷, K. Lantzsch²³, A. Lanza^{123a}, S. Laplace⁸³, C. Lapoire³², J. F. Laporte¹³⁸, T. Lari^{94a}, F. Lasagni Manghi^{22a,22b}, M. Lassnig³², P. Laurelli⁵⁰, W. Lavrijsen¹⁶, A. T. Law¹³⁹, P. Laycock⁷⁷, T. Lazovich⁵⁹, M. Lazzaroni^{94a,94b}, B. Le⁹¹, O. Le Dortz⁸³, E. Le Guirriec⁸⁸, E. P. Le Quilleuc¹³⁸, M. LeBlanc¹⁷², T. LeCompte⁶, F. Ledroit-Guillon⁵⁸, C. A. Lee²⁷, S. C. Lee¹⁵³, L. Lee¹, B. Lefebvre⁹⁰, G. Lefebvre⁸³, M. Lefebvre¹⁷², F. Legger¹⁰², C. Leggett¹⁶, A. Lehan⁷⁷, G. Lehmann Miotto³², X. Lei⁷, W. A. Leight³¹, A. G. Leister¹⁷⁹, M. A. L. Leite^{26d}, R. Leitner¹³¹, D. Lellouch¹⁷⁵, B. Lemmer⁵⁷, K. J. C. Leney⁸¹, T. Lenz²³, B. Lenzi³², R. Leone⁷, S. Leone^{126a,126b}, C. Leonidopoulos⁴⁹, S. Leontsinis¹⁰, G. Lerner¹⁵¹, C. Leroy⁹⁷, A. A. J. Lesage¹³⁸, C. G. Lester³⁰, M. Levchenko¹²⁵, J. Levêque⁵, D. Levin⁹², L. J. Levinson¹⁷⁵, M. Levy¹⁹, D. Lewis⁷⁹, M. Leyton⁴⁴, B. Li^{36a,p}, C. Li^{36a}, H. Li¹⁵⁰, L. Li⁴⁸, L. Li^{36c}, Q. Li^{35a}, S. Li⁴⁸, X. Li⁸⁷, Y. Li¹⁴³, Z. Liang^{35a}, B. Liberti^{135a}, A. Liblong¹⁶¹, P. Lichard³², K. Lie¹⁶⁹, J. Liebal²³, W. Liebig¹⁵, A. Limosani¹⁵², S. C. Lin^{153,ab}, T. H. Lin⁸⁶, B. E. Lindquist¹⁵⁰, A. E. Lioni⁵², E. Lipeles¹²⁴, A. Lipniacka¹⁵, M. Lisovsky^{60b}, T. M. Liss¹⁶⁹, A. Lister¹⁷¹, A. M. Litke¹³⁹, B. Liu^{153,ac}, D. Liu¹⁵³, H. Liu⁹², H. Liu²⁷, J. Liu^{36b}, J. B. Liu^{36a}, K. Liu⁸⁸, L. Liu¹⁶⁹, M. Liu^{36a}, Y. L. Liu^{36a}, Y. Liu^{36a}, M. Livan^{123a,123b}, A. Lleres⁵⁸, J. Llorente Merino^{35a}, S. L. Lloyd⁷⁹, F. Lo Sterzo¹⁵³, E. M. Lobodzinska⁴⁵, P. Loch⁷, F. K. Loebinger⁸⁷, K. M. Loew²⁵, A. Loginov^{179,*}, T. Lohse¹⁷, K. Lohwasser⁴⁵, M. Lokajicek¹²⁹, B. A. Long²⁴, J. D. Long¹⁶⁹, R. E. Long⁷⁵, L. Longo^{76a,76b}, K. A. Looper¹¹³, J. A. Lopez Lopez^{34b}, D. Lopez Mateos⁵⁹, B. Lopez Paredes¹⁴¹, I. Lopez Paz¹³, A. Lopez Solis⁸³, J. Lorenz¹⁰², N. Lorenzo Martinez⁶⁴, M. Losada²¹, P. J. Lösel¹⁰², X. Lou^{35a}, A. Lounis¹¹⁹, J. Love⁶, P. A. Love⁷⁵, H. Lu^{62a}, N. Lu⁹², H. J. Lubatti¹⁴⁰, C. Luci^{134a,134b}, A. Lucotte⁵⁸, C. Luedtke⁵¹, F. Luehring⁶⁴,

W. Lukas⁶⁵, L. Luminari^{134a}, O. Lundberg^{148a,148b}, B. Lund-Jensen¹⁴⁹, P. M. Luzzi⁸³, D. Lynn²⁷, R. Lysak¹²⁹, E. Lytken⁸⁴, V. Lyubushkin⁶⁸, H. Ma²⁷, L. L. Ma^{36b}, Y. Ma^{36b}, G. Maccarrone⁵⁰, A. Macchiolo¹⁰³, C. M. Macdonald¹⁴¹, B. Maček⁷⁸, J. Machado Miguens^{124,128b}, D. Madaffari⁸⁸, R. Madar³⁷, H. J. Maddocks¹⁶⁸, W. F. Mader⁴⁷, A. Madsen⁴⁵, J. Maeda⁷⁰, S. Maeland¹⁵, T. Maeno²⁷, A. Maevskiy¹⁰¹, E. Magradze⁵⁷, J. Mahlstedt¹⁰⁹, C. Maiani¹¹⁹, C. Maidantchik^{26a}, A. A. Maier¹⁰³, T. Maier¹⁰², A. Maio^{128a,128b,128d}, S. Majewski¹¹⁸, Y. Makida⁶⁹, N. Makovec¹¹⁹, B. Malaescu⁸³, Pa. Malecki⁴², V. P. Maleev¹²⁵, F. Malek⁵⁸, U. Mallik⁶⁶, D. Malon⁶, C. Malone³⁰, S. Maltezos¹⁰, S. Malyukov³², J. Mamuzic¹⁷⁰, G. Mancini⁵⁰, L. Mandelli^{94a}, I. Mandić⁷⁸, J. Maneira^{128a,128b}, L. Manhaes de Andrade Filho^{26b}, J. Manjarres Ramos^{163b}, A. Mann¹⁰², A. Manousos³², B. Mansoulie¹³⁸, J. D. Mansour^{35a}, R. Mantifel⁹⁰, M. Mantoani⁵⁷, S. Manzoni^{94a,94b}, L. Mapelli³², G. Marceca²⁹, L. March⁵², G. Marchiori⁸³, M. Marcisovsky¹²⁹, M. Marjanovic¹⁴, D. E. Marley⁹², F. Marroquim^{26a}, S. P. Marsden⁸⁷, Z. Marshall¹⁶, S. Marti-Garcia¹⁷⁰, B. Martin⁹³, T. A. Martin¹⁷³, V. J. Martin⁴⁹, B. Martin dit Latour¹⁵, M. Martinez^{13,s}, V. I. Martinez Outschoorn¹⁶⁹, S. Martin-Haugh¹³³, V. S. Martoianu^{28b}, A. C. Martyniuk⁸¹, A. Marzin³², L. Masetti⁸⁶, T. Mashimo¹⁵⁷, R. Mashinistov⁹⁸, J. Masik⁸⁷, A. L. Maslennikov^{111,c}, I. Massa^{22a,22b}, L. Massa^{22a,22b}, P. Mastrandrea⁵, A. Mastroberardino^{40a,40b}, T. Masubuchi¹⁵⁷, P. Mättig¹⁷⁸, J. Mattmann⁸⁶, J. Maurer^{28b}, S. J. Maxfield⁷⁷, D. A. Maximov^{111,c}, R. Mazini¹⁵³, I. Maznas¹⁵⁶, S. M. Mazza^{94a,94b}, N. C. Mc Fadden¹⁰⁷, G. Mc Goldrick¹⁶¹, S. P. Mc Kee⁹², A. McCarn⁹², R. L. McCarthy¹⁵⁰, T. G. McCarthy¹⁰³, L. I. McClymont⁸¹, E. F. McDonald⁹¹, J. A. McFayden⁸¹, G. Mchedlidze⁵⁷, S. J. McMahon¹³³, R. A. McPherson^{172,m}, M. Medinnis⁴⁵, S. Meehan¹⁴⁰, S. Mehlhase¹⁰², A. Mehta⁷⁷, K. Meier^{60a}, C. Meineck¹⁰², B. Meirose⁴⁴, D. Melini¹⁷⁰, B. R. Mellado Garcia^{147c}, M. Melo^{146a}, F. Meloni¹⁸, S. B. Menary⁸⁷, L. Meng⁷⁷, X. T. Meng⁹², A. Mengarelli^{22a,22b}, S. Menke¹⁰³, E. Meoni¹⁶⁵, S. Mergelmeyer¹⁷, P. Mermod⁵², L. Merola^{106a,106b}, C. Meroni^{94a}, F. S. Merritt³³, A. Messina^{134a,134b}, J. Metcalfe⁶, A. S. Mete¹⁶⁶, C. Meyer⁸⁶, C. Meyer¹²⁴, J-P. Meyer¹³⁸, J. Meyer¹⁰⁹, H. Meyer Zu Theenhausen^{60a}, F. Miano¹⁵¹, R. P. Middleton¹³³, S. Miglioranzì^{53a,53b}, L. Mijovic⁴⁹, G. Mikenberg¹⁷⁵, M. Mikestikova¹²⁹, M. Mikuz⁷⁸, M. Milesi⁹¹, A. Milic²⁷, D. W. Miller³³, C. Mills⁴⁹, A. Milov¹⁷⁵, D. A. Milstead^{148a,148b}, A. A. Minaenko¹³², Y. Minami¹⁵⁷, I. A. Minashvili⁶⁸, A. I. Mincer¹¹², B. Mindur^{41a}, M. Mineev⁶⁸, Y. Minegishi¹⁵⁷, Y. Ming¹⁷⁶, L. M. Mir¹³, K. P. Mistry¹²⁴, T. Mitani¹⁷⁴, J. Mitrevski¹⁰², V. A. Mitsou¹⁷⁰, A. Miucci¹⁸, P. S. Miyagawa¹⁴¹, A. Mizukami⁶⁹, J. U. Mjörnmark⁸⁴, M. Mlynarikova¹³¹, T. Moa^{148a,148b}, K. Mochizuki⁹⁷, P. Mogg⁵¹, S. Mohapatra³⁸, S. Molander^{148a,148b}, R. Moles-Valls²³, R. Monden⁷¹, M. C. Mondragon⁹³, K. Mönig⁴⁵, J. Monk³⁹, E. Monnier⁸⁸, A. Montalbano¹⁵⁰, J. Montejo Berlingen³², F. Monticelli⁷⁴, S. Monzani^{94a,94b}, R. W. Moore³, N. Morange¹¹⁹, D. Moreno²¹, M. Moreno Llácer⁵⁷, P. Morettini^{53a}, S. Morgenstern³², D. Mori¹⁴⁴, T. Mori¹⁵⁷, M. Morii⁵⁹, M. Morinaga¹⁵⁷, V. Morisbak¹²¹, S. Moritz⁸⁶, A. K. Morley¹⁵², G. Mornacchi³², J. D. Morris⁷⁹, S. S. Mortensen³⁹, L. Morvaj¹⁵⁰, P. Moschovakos¹⁰, M. Mosidze^{54b}, H. J. Moss¹⁴¹, J. Moss^{145,ad}, K. Motohashi¹⁵⁹, R. Mount¹⁴⁵, E. Mountricha²⁷, E. J. W. Moyse⁸⁹, S. Muanza⁸⁸, R. D. Mudd¹⁹, F. Mueller¹⁰³, J. Mueller¹²⁷, R. S. P. Mueller¹⁰², T. Mueller³⁰, D. Muenstermann⁷⁵, P. Mullen⁵⁶, G. A. Mullier¹⁸, F. J. Munoz Sanchez⁸⁷, J. A. Murillo Quijada¹⁹, W. J. Murray^{173,133}, H. Musheghyan⁵⁷, M. Muškinja⁷⁸, A. G. Myagkov^{132,ae}, M. Myska¹³⁰, B. P. Nachman¹⁶, O. Nackenhorst⁵², K. Nagai¹²², R. Nagai^{69,z}, K. Nagano⁶⁹, Y. Nagasaka⁶¹, K. Nagata¹⁶⁴, M. Nagel⁵¹, E. Nagy⁸⁸, A. M. Nairz³², Y. Nakahama¹⁰⁵, K. Nakamura⁶⁹, T. Nakamura¹⁵⁷, I. Nakano¹¹⁴, R. F. Naranjo Garcia⁴⁵, R. Narayan¹¹, D. I. Narrias Villar^{60a}, I. Naryshkin¹²⁵, T. Naumann⁴⁵, G. Navarro²¹, R. Nayyar⁷, H. A. Neal⁹², P. Yu. Nechaeva⁹⁸, T. J. Neep⁸⁷, A. Negri^{123a,123b}, M. Negrini^{22a}, S. Nektarijevic¹⁰⁸, C. Nellist¹¹⁹, A. Nelson¹⁶⁶, S. Nemecek¹²⁹, P. Nemethy¹¹², A. A. Nepomuceno^{26a}, M. Nessi^{32,af}, M. S. Neubauer¹⁶⁹, M. Neumann¹⁷⁸, R. M. Neves¹¹², P. Nevski²⁷, P. R. Newman¹⁹, T. Nguyen Manh⁹⁷, R. B. Nickerson¹²², R. Nicolaidou¹³⁸, J. Nielsen¹³⁹, V. Nikolaenko^{132,ae}, I. Nikolic-Audit⁸³, K. Nikolopoulos¹⁹, J. K. Nilsen¹²¹, P. Nilsson²⁷, Y. Ninomiya¹⁵⁷, A. Nisati^{134a}, R. Nisius¹⁰³, T. Nobe¹⁵⁷, M. Nomachi¹²⁰, I. Nomidis³¹, T. Nooney⁷⁹, S. Norberg¹¹⁵, M. Nordberg³², N. Norjoharuddeen¹²², O. Novgorodova⁴⁷, S. Nowak¹⁰³, M. Nozaki⁶⁹, L. Nozka¹¹⁷, K. Ntekas¹⁶⁶, E. Nurse⁸¹, F. Nuti⁹¹, D. C. O'Neil¹⁴⁴, A. A. O'Rourke⁴⁵, V. O'Shea⁵⁶, F. G. Oakham^{31,d}, H. Oberlack¹⁰³, T. Obermann²³, J. Ocariz⁸³, A. Ochi⁷⁰, I. Ochoa³⁸, J. P. Ochoa-Ricoux^{34a}, S. Oda⁷³, S. Odaka⁶⁹, H. Ogren⁶⁴, A. Oh⁸⁷, S. H. Oh⁴⁸, C. C. Ohm¹⁶, H. Ohman¹⁶⁸, H. Oide^{53a,53b}, H. Okawa¹⁶⁴, Y. Okumura¹⁵⁷, T. Okuyama⁶⁹, A. Olariu^{28b}, L. F. Oleiro Seabra^{128a}, S. A. Olivares Pino⁴⁹, D. Oliveira Damazio²⁷, A. Olszewski⁴², J. Olszowska⁴², A. Onofre^{128a,128e}, K. Onogi¹⁰⁵, P. U. E. Onyisi^{11,v}, M. J. Oreglia³³, Y. Oren¹⁵⁵, D. Orestano^{136a,136b}, N. Orlando^{62b}, R. S. Orr¹⁶¹, B. Osculati^{53a,53b,*}, R. Ospanov⁸⁷, G. Otero y Garzon²⁹, H. Otono⁷³, M. Ouchrif^{137d}, F. Ould-Saada¹²¹, A. Ouraou¹³⁸, K. P. Oussoren¹⁰⁹, Q. Ouyang^{35a}, M. Owen⁵⁶, R. E. Owen¹⁹, V. E. Ozcan^{20a}, N. Ozturk⁸, K. Pachal¹⁴⁴, A. Pacheco Pages¹³, L. Pacheco Rodriguez¹³⁸, C. Padilla Aranda¹³, M. Pagáčová⁵¹, S. Pagan Griso¹⁶, M. Paganini¹⁷⁹, F. Paige²⁷, P. Pais⁸⁹, K. Pajchel¹²¹, G. Palacino⁶⁴, S. Palazzo^{40a,40b}, S. Palestini³², M. Palka^{41b}, D. Pallin³⁷, E. St. Panagiotopoulou¹⁰, C. E. Pandini⁸³, J. G. Panduro Vazquez⁸⁰, P. Pani^{148a,148b}, S. Panitkin²⁷, D. Pantea^{28b}, L. Paolozzi⁵², Th. D. Papadopoulou¹⁰, K. Papageorgiou¹⁵⁶, A. Paramonov⁶, D. Paredes Hernandez¹⁷⁹, A. J. Parker⁷⁵, M. A. Parker³⁰, K. A. Parker¹⁴¹, F. Parodi^{53a,53b}, J. A. Parsons³⁸, U. Parzefall⁵¹, V. R. Pascuzzi¹⁶¹,

E. Pasqualucci^{134a}, S. Passaggio^{53a}, Fr. Pastore⁸⁰, G. Pásztor^{31,ag}, S. Pataraiá¹⁷⁸, J. R. Pater⁸⁷, T. Pauly³², J. Pearce¹⁷², B. Pearson¹¹⁵, L. E. Pedersen³⁹, M. Pedersen¹²¹, S. Pedraza Lopez¹⁷⁰, R. Pedro^{128a,128b}, S. V. Peleganchuk^{111,c}, O. Penc¹²⁹, C. Peng^{35a}, H. Peng^{36a}, J. Penwell⁶⁴, B. S. Peralva^{26b}, M. M. Perego¹³⁸, D. V. Perepelitsa²⁷, E. Perez Codina^{163a}, L. Perini^{94a,94b}, H. Pernegger³², S. Perrella^{106a,106b}, R. Peschke⁴⁵, V. D. Peshekhonov⁶⁸, K. Peters⁴⁵, R. F. Y. Peters⁸⁷, B. A. Petersen³², T. C. Petersen³⁹, E. Petit⁵⁸, A. Petridis¹, C. Petridou¹⁵⁶, P. Petroff¹¹⁹, E. Petrolo^{134a}, M. Petrov¹²², F. Petrucci^{136a,136b}, N. E. Pettersson⁸⁹, A. Peyaud¹³⁸, R. Pezoa^{34b}, P. W. Phillips¹³³, G. Piacquadio¹⁵⁰, E. Pianori¹⁷³, A. Picazio⁸⁹, E. Piccaro⁷⁹, M. Piccinini^{22a,22b}, M. A. Pickering¹²², R. Piegaiá²⁹, J. E. Pilcher³³, A. D. Pilkington⁸⁷, A. W. J. Pin⁸⁷, M. Pinamonti^{167a,167c,ah}, J. L. Pinfeld³, A. Pingel³⁹, S. Pires⁸³, H. Pirumov⁴⁵, M. Pitt¹⁷⁵, L. Plazak^{146a}, M.-A. Pleier²⁷, V. Pleskot⁸⁶, E. Plotnikova⁶⁸, D. Pluth⁶⁷, R. Poettgen^{148a,148b}, L. Poggioli¹¹⁹, D. Pohl²³, G. Polesello^{123a}, A. Poley⁴⁵, A. Policicchio^{40a,40b}, R. Polifka¹⁶¹, A. Polini^{22a}, C. S. Pollard⁵⁶, V. Polychronakos²⁷, K. Pommès³², L. Pontecorvo^{134a}, B. G. Pope⁹³, G. A. Popeneciu^{28c}, A. Poppleton³², S. Pospisil¹³⁰, K. Potamianos¹⁶, I. N. Potrap⁶⁸, C. J. Potter³⁰, C. T. Potter¹¹⁸, G. Poulard³², J. Poveda³², V. Pozdnyakov⁶⁸, M. E. Pozo Astigarraga³², P. Pralavorio⁸⁸, A. Pranko¹⁶, S. Prell⁶⁷, D. Price⁸⁷, L. E. Price⁶, M. Primavera^{76a}, S. Prince⁹⁰, K. Prokofiev^{62c}, F. Prokoshin^{34b}, S. Protopopescu²⁷, J. Proudfoot⁶, M. Przybycien^{41a}, D. Puddu^{136a,136b}, M. Purohit^{27,ai}, P. Puzo¹¹⁹, J. Qian⁹², G. Qin⁵⁶, Y. Qin⁸⁷, A. Quadt⁵⁷, W. B. Quayle^{167a,167b}, M. Queitsch-Maitland⁴⁵, D. Quilty⁵⁶, S. Raddum¹²¹, V. Radeka²⁷, V. Radescu¹²², S. K. Radhakrishnan¹⁵⁰, P. Radloff¹¹⁸, P. Rados⁹¹, F. Ragusa^{94a,94b}, G. Rahal¹⁸¹, J. A. Raine⁸⁷, S. Rajagopalan²⁷, M. Rammensee³², C. Rangel-Smith¹⁶⁸, M. G. Ratti^{94a,94b}, D. M. Rauch⁴⁵, F. Rauscher¹⁰², S. Rave⁸⁶, T. Ravenscroft⁵⁶, I. Ravinovich¹⁷⁵, M. Raymond³², A. L. Read¹²¹, N. P. Readioff⁷⁷, M. Reale^{76a,76b}, D. M. Rebuffi^{123a,123b}, A. Redelbach¹⁷⁷, G. Redlinger²⁷, R. Reece¹³⁹, R. G. Reed^{147c}, K. Reeves⁴⁴, L. Rehnisch¹⁷, J. Reichert¹²⁴, A. Reiss⁸⁶, C. Rembser³², H. Ren^{35a}, M. Rescigno^{134a}, S. Resconi^{94a}, E. D. Resseguie¹²⁴, O. L. Rezanova^{111,c}, P. Reznicek¹³¹, R. Rezvani⁹⁷, R. Richter¹⁰³, S. Richter⁸¹, E. Richter-Was^{41b}, O. Ricken²³, M. Ridel⁸³, P. Rieck¹⁰³, C. J. Riegel¹⁷⁸, J. Rieger⁵⁷, O. Rifki¹¹⁵, M. Rijssenbeek¹⁵⁰, A. Rimoldi^{123a,123b}, M. Rimoldi¹⁸, L. Rinaldi^{22a}, B. Ristic⁵², E. Ritsch³², I. Riu¹³, F. Rizatdinova¹¹⁶, E. Rizvi⁷⁹, C. Rizzi¹³, R. T. Roberts⁸⁷, S. H. Robertson^{90,m}, A. Robichaud-Veronneau⁹⁰, D. Robinson³⁰, J. E. M. Robinson⁴⁵, A. Robson⁵⁶, C. Roda^{126a,126b}, Y. Rodina^{88,aj}, A. Rodriguez Perez¹³, D. Rodriguez Rodriguez¹⁷⁰, S. Roe³², C. S. Rogan⁵⁹, O. Røhne¹²¹, J. Roloff⁵⁹, A. Romaniouk¹⁰⁰, M. Romano^{22a,22b}, S. M. Romano Saez³⁷, E. Romero Adam¹⁷⁰, N. Rompotis¹⁴⁰, M. Ronzani⁵¹, L. Roos⁸³, E. Ros¹⁷⁰, S. Rosati^{134a}, K. Rosbach⁵¹, P. Rose¹³⁹, N.-A. Rosien⁵⁷, V. Rossetti^{148a,148b}, E. Rossi^{106a,106b}, L. P. Rossi^{53a}, J. H. N. Rosten³⁰, R. Rosten¹⁴⁰, M. Rotaru^{28b}, I. Roth¹⁷⁵, J. Rothberg¹⁴⁰, D. Rousseau¹¹⁹, A. Rozanov⁸⁸, Y. Rozen¹⁵⁴, X. Ruan^{147c}, F. Rubbo¹⁴⁵, M. S. Rudolph¹⁶¹, F. Rühr⁵¹, A. Ruiz-Martinez³¹, Z. Rurikova⁵¹, N. A. Rusakovich⁶⁸, A. Ruschke¹⁰², H. L. Russell¹⁴⁰, J. P. Rutherford⁷, N. Ruthmann³², Y. F. Ryabov¹²⁵, M. Rybar¹⁶⁹, G. Rybkin¹¹⁹, S. Ryu⁶, A. Ryzhov¹³², G. F. Rzehorz⁵⁷, A. F. Saavedra¹⁵², G. Sabato¹⁰⁹, S. Sacerdoti²⁹, H. F.-W. Sadrozinski¹³⁹, R. Sadykov⁶⁸, F. Safai Tehrani^{134a}, P. Saha¹¹⁰, M. Sahinsoy^{60a}, M. Saimpert¹³⁸, T. Saito¹⁵⁷, H. Sakamoto¹⁵⁷, Y. Sakurai¹⁷⁴, G. Salamanna^{136a,136b}, A. Salamon^{135a,135b}, J. E. Salazar Loyola^{34b}, D. Salek¹⁰⁹, P. H. Sales De Bruin¹⁴⁰, D. Salihagic¹⁰³, A. Salnikov¹⁴⁵, J. Salt¹⁷⁰, D. Salvatore^{40a,40b}, F. Salvatore¹⁵¹, A. Salvucci^{62a,62b,62c}, A. Salzburger³², D. Sammel⁵¹, D. Sampsonidis¹⁵⁶, J. Sánchez¹⁷⁰, V. Sanchez Martinez¹⁷⁰, A. Sanchez Pineda^{106a,106b}, H. Sandaker¹²¹, R. L. Sandbach⁷⁹, M. Sandhoff¹⁷⁸, C. Sandoval²¹, D. P. C. Sankey¹³³, M. Sannino^{53a,53b}, A. Sansoni⁵⁰, C. Santoni³⁷, R. Santonico^{135a,135b}, H. Santos^{128a}, I. Santoyo Castillo¹⁵¹, K. Sapp¹²⁷, A. Sapronov⁶⁸, J. G. Saraiva^{128a,128d}, B. Sarrazin²³, O. Sasaki⁶⁹, K. Sato¹⁶⁴, E. Sauvan⁵, G. Savage⁸⁰, P. Savard^{161,d}, N. Savic¹⁰³, C. Sawyer¹³³, L. Sawyer^{82,r}, J. Saxon³³, C. Sbarra^{22a}, A. Sbrizzi^{22a,22b}, T. Scanlon⁸¹, D. A. Scannicchio¹⁶⁶, M. Scarcella¹⁵², V. Scarfone^{40a,40b}, J. Schaarschmidt¹⁷⁵, P. Schacht¹⁰³, B. M. Schachtner¹⁰², D. Schaefer³², L. Schaefer¹²⁴, R. Schaefer⁴⁵, J. Schaeffer⁸⁶, S. Schaepe²³, S. Schatzel^{60b}, U. Schäfer⁸⁶, A. C. Schaffer¹¹⁹, D. Schaile¹⁰², R. D. Schamberger¹⁵⁰, V. Scharf^{60a}, V. A. Schegelsky¹²⁵, D. Scheirich¹³¹, M. Schernau¹⁶⁶, C. Schiavi^{53a,53b}, S. Schier¹³⁹, C. Schillo⁵¹, M. Schioppa^{40a,40b}, S. Schlenker³², K. R. Schmidt-Sommerfeld¹⁰³, K. Schmieden³², C. Schmitt⁸⁶, S. Schmitt⁴⁵, S. Schmitz⁸⁶, B. Schneider^{163a}, U. Schnoor⁵¹, L. Schoeffel¹³⁸, A. Schoening^{60b}, B. D. Schoenrock⁹³, E. Schopf²³, M. Schott⁸⁶, J. F. P. Schouwenberg¹⁰⁸, J. Schovancova⁸, S. Schramm⁵², M. Schreyer¹⁷⁷, N. Schuh⁸⁶, A. Schulte⁸⁶, M. J. Schultens²³, H.-C. Schultz-Coulon^{60a}, H. Schulz¹⁷, M. Schumacher⁵¹, B. A. Schumm¹³⁹, Ph. Schune¹³⁸, A. Schwartzman¹⁴⁵, T. A. Schwarz⁹², H. Schweiger⁸⁷, Ph. Schwemling¹³⁸, R. Schwienhorst⁹³, J. Schwindling¹³⁸, T. Schwindt²³, G. Sciolla²⁵, F. Scuri^{126a,126b}, F. Scutti⁹¹, J. Searcy⁹², P. Seema²³, S. C. Seidel¹⁰⁷, A. Seiden¹³⁹, F. Seifert¹³⁰, J. M. Seixas^{26a}, G. Sekhniaidze^{106a}, K. Sekhon⁹², S. J. Sekula⁴³, N. Semprini-Cesari^{22a,22b}, C. Serfon¹²¹, L. Serin¹¹⁹, L. Serkin^{167a,167b}, M. Sessa^{136a,136b}, R. Seuster¹⁷², H. Severini¹¹⁵, T. Sfiligoi⁷⁸, F. Sforza³², A. Sfyrila⁵², E. Shabalina⁵⁷, N. W. Shaikh^{148a,148b}, L. Y. Shan^{35a}, R. Shang¹⁶⁹, J. T. Shank²⁴, M. Shapiro¹⁶, P. B. Shatalov⁹⁹, K. Shaw^{167a,167b}, S. M. Shaw⁸⁷, A. Shcherbakova^{148a,148b}, C. Y. Shehu¹⁵¹, P. Sherwood⁸¹, L. Shi^{153,ak}, S. Shimizu⁷⁰, C. O. Shimmin¹⁶⁶, M. Shimojima¹⁰⁴, S. Shirabe⁷³, M. Shiyakova^{68,al}, A. Shmeleva⁹⁸, D. Shoaleh Saadi⁹⁷, M. J. Shochet³³, S. Shojaii^{94a}, D. R. Shope¹¹⁵, S. Shrestha¹¹³, E. Shulga¹⁰⁰

M. A. Shupe⁷, P. Sicho¹²⁹, A. M. Sickles¹⁶⁹, P. E. Sidebo¹⁴⁹, E. Sideras Haddad^{147c}, O. Sidiropoulou¹⁷⁷, D. Sidorov¹¹⁶, A. Sidoti^{22a,22b}, F. Siegert⁴⁷, Dj. Sijacki¹⁴, J. Silva^{128a,128d}, S. B. Silverstein^{148a}, V. Simak¹³⁰, Lj. Simic¹⁴, S. Simion¹¹⁹, E. Simioni⁸⁶, B. Simmons⁸¹, D. Simon³⁷, M. Simon⁸⁶, P. Sinervo¹⁶¹, N. B. Sinev¹¹⁸, M. Sioli^{22a,22b}, G. Siragusa¹⁷⁷, I. Siral⁹², S. Yu. Sivoklokov¹⁰¹, J. Sjölin^{148a,148b}, M. B. Skinner⁷⁵, H. P. Skottowe⁵⁹, P. Skubic¹¹⁵, M. Slater¹⁹, T. Slavicek¹³⁰, M. Slawinska¹⁰⁹, K. Sliwa¹⁶⁵, R. Slovak¹³¹, V. Smakhtin¹⁷⁵, B. H. Smart⁵, L. Smestad¹⁵, J. Smiesko^{146a}, S. Yu. Smirnov¹⁰⁰, Y. Smirnov¹⁰⁰, L. N. Smirnova^{101.am}, O. Smirnova⁸⁴, J. W. Smith⁵⁷, M. N. K. Smith³⁸, R. W. Smith³⁸, M. Smizanska⁷⁵, K. Smolek¹³⁰, A. A. Snesarev⁹⁸, I. M. Snyder¹¹⁸, S. Snyder²⁷, R. Sobie^{172.m}, F. Socher⁴⁷, A. Soffer¹⁵⁵, D. A. Soh¹⁵³, G. Sokhrannyi⁷⁸, C. A. Solans Sanchez³², M. Solar¹³⁰, E. Yu. Soldatov¹⁰⁰, U. Soldevila¹⁷⁰, A. A. Solodkov¹³², A. Soloshenko⁶⁸, O. V. Solovyanov¹³², V. Solovyev¹²⁵, P. Sommer⁵¹, H. Son¹⁶⁵, H. Y. Song^{36a.an}, A. Sood¹⁶, A. Sopczak¹³⁰, V. Sopko¹³⁰, V. Sorin¹³, D. Sosa^{60b}, C. L. Sotiropoulou^{126a,126b}, R. Soualah^{167a,167c}, A. M. Soukharev^{111.c}, D. South⁴⁵, B. C. Sowden⁸⁰, S. Spagnolo^{76a,76b}, M. Spalla^{126a,126b}, M. Spangenberg¹⁷³, F. Spanò⁸⁰, D. Sperlich¹⁷, F. Spettel¹⁰³, R. Spighi^{22a}, G. Spigo³², L. A. Spiller⁹¹, M. Spousta¹³¹, R. D. St. Denis^{56.*}, A. Stabile^{94a}, R. Stamen^{60a}, S. Stamm¹⁷, E. Stanecka⁴², R. W. Stanek⁶, C. Stanescu^{136a}, M. Stanescu-Bellu⁴⁵, M. M. Stanitzki⁴⁵, S. Stapnes¹²¹, E. A. Starchenko¹³², G. H. Stark³³, J. Stark⁵⁸, P. Staroba¹²⁹, P. Starovoitov^{60a}, S. Stärz³², R. Staszewski⁴², P. Steinberg²⁷, B. Stelzer¹⁴⁴, H. J. Stelzer³², O. Stelzer-Chilton^{163a}, H. Stenzel⁵⁵, G. A. Stewart⁵⁶, J. A. Stillings²³, M. C. Stockton⁹⁰, M. Stoebe⁹⁰, G. Stoicea^{28b}, P. Stolte⁵⁷, S. Stonjek¹⁰³, A. R. Stradling⁸, A. Straessner⁴⁷, M. E. Stramaglia¹⁸, J. Strandberg¹⁴⁹, S. Strandberg^{148a,148b}, A. Strandlie¹²¹, M. Strauss¹¹⁵, P. Strizeneč^{146b}, R. Ströhmer¹⁷⁷, D. M. Strom¹¹⁸, R. Stroynowski⁴³, A. Strubig¹⁰⁸, S. A. Stucci²⁷, B. Stugu¹⁵, N. A. Styles⁴⁵, D. Su¹⁴⁵, J. Su¹²⁷, S. Suchek^{60a}, Y. Sugaya¹²⁰, M. Suk¹³⁰, V. V. Sulin⁹⁸, S. Sultansoy^{4c}, T. Sumida⁷¹, S. Sun⁵⁹, X. Sun³, J. E. Sundermann⁵¹, K. Suruliz¹⁵¹, C. J. E. Suster¹⁵², M. R. Sutton¹⁵¹, S. Suzuki⁶⁹, M. Svatos¹²⁹, M. Swiatlowski³³, S. P. Swift², I. Sykora^{146a}, T. Sykora¹³¹, D. Ta⁵¹, K. Tackmann⁴⁵, J. Taenzer¹⁵⁵, A. Taffard¹⁶⁶, R. Tafirout^{163a}, N. Taiblum¹⁵⁵, H. Takai²⁷, R. Takashima⁷², T. Takeshita¹⁴², Y. Takubo⁶⁹, M. Talby⁸⁸, A. A. Talyshev^{111.c}, J. Tanaka¹⁵⁷, M. Tanaka¹⁵⁹, R. Tanaka¹¹⁹, S. Tanaka⁶⁹, R. Tanioka⁷⁰, B. B. Tannenwald¹¹³, S. Tapia Araya^{34b}, S. Tapprogge⁸⁶, S. Tarem¹⁵⁴, G. F. Tartarelli^{94a}, P. Tas¹³¹, M. Tasevsky¹²⁹, T. Tashiro⁷¹, E. Tassi^{40a,40b}, A. Tavares Delgado^{128a,128b}, Y. Tayalati^{137e}, A. C. Taylor¹⁰⁷, G. N. Taylor⁹¹, P. T. E. Taylor⁹¹, W. Taylor^{163b}, F. A. Teischinger³², P. Teixeira-Dias⁸⁰, K. K. Temming⁵¹, D. Temple¹⁴⁴, H. Ten Kate³², P. K. Teng¹⁵³, J. J. Teoh¹²⁰, F. Tepel¹⁷⁸, S. Terada⁶⁹, K. Terashi¹⁵⁷, J. Terron⁸⁵, S. Terzo¹³, M. Testa⁵⁰, R. J. Teuscher^{161.m}, T. Thevenaux-Pelzer⁸⁸, J. P. Thomas¹⁹, J. Thomas-Wilsker⁸⁰, P. D. Thompson¹⁹, A. S. Thompson⁵⁶, L. A. Thomsen¹⁷⁹, E. Thomson¹²⁴, M. J. Tibbetts¹⁶, R. E. Ticse Torres⁸⁸, V. O. Tikhomirov^{98.ao}, Yu. A. Tikhonov^{111.c}, S. Timoshenko¹⁰⁰, P. Tipton¹⁷⁹, S. Tisserant⁸⁸, K. Todome¹⁵⁹, T. Todorov^{5.*}, S. Todorova-Nova¹³¹, J. Tojo⁷³, S. Tokár^{146a}, K. Tokushuku⁶⁹, E. Tolley⁵⁹, L. Tomlinson⁸⁷, M. Tomoto¹⁰⁵, L. Tompkins^{145.ap}, K. Toms¹⁰⁷, B. Tong⁵⁹, P. Tornambe⁵¹, E. Torrence¹¹⁸, H. Torres¹⁴⁴, E. Torró Pastor¹⁴⁰, J. Toth^{88.aq}, F. Touchard⁸⁸, D. R. Tovey¹⁴¹, T. Trefzger¹⁷⁷, A. Tricoli²⁷, I. M. Trigger^{163a}, S. Trincaz-Duvoid⁸³, M. F. Tripiana¹³, W. Trischuk¹⁶¹, B. Trocmé⁵⁸, A. Trofymov⁴⁵, C. Troncon^{94a}, M. Trotter-McDonald¹⁶, M. Trovatelli¹⁷², L. Truong^{167a,167c}, M. Trzebinski⁴², A. Trzupek⁴², J. C-L. Tseng¹²², P. V. Tsiarshka⁹⁵, G. Tsipolitis¹⁰, N. Tsirintanis⁹, S. Tsiskaridze¹³, V. Tsiskaridze⁵¹, E. G. Tskhadadze^{54a}, K. M. Tsui^{62a}, I. I. Tsukerman⁹⁹, V. Tsulaia¹⁶, S. Tsuno⁶⁹, D. Tsybychev¹⁵⁰, Y. Tu^{62b}, A. Tudorache^{28b}, V. Tudorache^{28b}, T. T. Tulbure^{28a}, A. N. Tuna⁵⁹, S. A. Tuppuri^{22a,22b}, S. Turchikhin⁶⁸, D. Turgeman¹⁷⁵, I. Turk Cakir^{4b.ar}, R. Turra^{94a,94b}, P. M. Tuts³⁸, G. Uccielli^{22a,22b}, I. Ueda¹⁵⁷, M. Ughetto^{148a,148b}, F. Ukegawa¹⁶⁴, G. Unal³², A. Undrus²⁷, G. Unel¹⁶⁶, F. C. Ungaro⁹¹, Y. Unno⁶⁹, C. Unverdorben¹⁰², J. Urban^{146b}, P. Urquijo⁹¹, P. Urrejola⁸⁶, G. Usai⁸, J. Usui⁶⁹, L. Vacavant⁸⁸, V. Vacek¹³⁰, B. Vachon⁹⁰, C. Valderanis¹⁰², E. Valdes Santurio^{148a,148b}, N. Valencic¹⁰⁹, S. Valentinetti^{22a,22b}, A. Valero¹⁷⁰, L. Valery¹³, S. Valkar¹³¹, J. A. Valls Ferrer¹⁷⁰, W. Van Den Wollenberg¹⁰⁹, P. C. Van Der Deijl¹⁰⁹, H. van der Graaf¹⁰⁹, N. van Eldik¹⁵⁴, P. van Gemmeren⁶, J. Van Nieuwkoop¹⁴⁴, I. van Vulpen¹⁰⁹, M. C. van Woerden¹⁰⁹, M. Vanadia^{134a,134b}, W. Vandelli³², R. Vanguri¹²⁴, A. Vaniachine¹⁶⁰, P. Vankov¹⁰⁹, G. Vardanyan¹⁸⁰, R. Vari^{134a}, E. W. Varnes⁷, T. Varol⁴³, D. Varouchas⁸³, A. Vartapetian⁸, K. E. Varvell¹⁵², J. G. Vasquez¹⁷⁹, G. A. Vasquez^{34b}, F. Vazeille³⁷, T. Vazquez Schroeder⁹⁰, J. Veatch⁵⁷, V. Veeraraghavan⁷, L. M. Veloce¹⁶¹, F. Veloso^{128a,128c}, S. Veneziano^{134a}, A. Ventura^{76a,76b}, M. Venturi¹⁷², N. Venturi¹⁶¹, A. Venturini²⁵, V. Vercesi^{123a}, M. Verducci^{134a,134b}, W. Verkerke¹⁰⁹, J. C. Vermeulen¹⁰⁹, A. Vest^{47.as}, M. C. Vetterli^{144.d}, O. Viazlo⁸⁴, I. Vichou^{169.*}, T. Vickey¹⁴¹, O. E. Vickey Boeriu¹⁴¹, G. H. A. Viehhauser¹²², S. Viel¹⁶, L. Vigani¹²², M. Villa^{22a,22b}, M. Villaplana Perez^{94a,94b}, E. Vilucchi⁵⁰, M. G. Vincter³¹, V. B. Vinogradov⁶⁸, A. Vishwakarma⁴⁵, C. Vittori^{22a,22b}, I. Vivarelli¹⁵¹, S. Vlachos¹⁰, M. Vlasak¹³⁰, M. Vogel¹⁷⁸, P. Vokac¹³⁰, G. Volpi^{126a,126b}, M. Volpi⁹¹, H. von der Schmitt¹⁰³, E. von Toerne²³, V. Vorobel¹³¹, K. Vorobev¹⁰⁰, M. Vos¹⁷⁰, R. Voss³², J. H. Vosseveld⁷⁷, N. Vranjes¹⁴, M. Vranjes Milosavljevic¹⁴, V. Vrba¹²⁹, M. Vreeswijk¹⁰⁹, R. Vuillermet³², I. Vukotic³³, P. Wagner²³, W. Wagner¹⁷⁸, H. Wahlberg⁷⁴, S. Wahrenmund⁴⁷, J. Wakabayashi¹⁰⁵, J. Walder⁷⁵, R. Walker¹⁰², W. Walkowiak¹⁴³, V. Wallangen^{148a,148b}, C. Wang^{35b}, C. Wang^{36b,88}, F. Wang¹⁷⁶, H. Wang¹⁶, H. Wang⁴³, J. Wang⁴⁵, J. Wang¹⁵², K. Wang⁹⁰, Q. Wang¹¹⁵, R. Wang⁶, S. M. Wang¹⁵³, T. Wang³⁸, W. Wang^{36a}, C. Wanotayaroj¹¹⁸, A. Warburton⁹⁰, C. P. Ward³⁰, D. R. Wardrope⁸¹

A. Washbrook⁴⁹, P. M. Watkins¹⁹, A. T. Watson¹⁹, M. F. Watson¹⁹, G. Watts¹⁴⁰, S. Watts⁸⁷, B. M. Waugh⁸¹, S. Webb⁸⁶, M. S. Weber¹⁸, S. W. Weber¹⁷⁷, S. A. Weber³¹, J. S. Webster⁶, A. R. Weidberg¹²², B. Weinert⁶⁴, J. Weingarten⁵⁷, C. Weiser⁵¹, H. Weits¹⁰⁹, P. S. Wells³², T. Wenaus²⁷, T. Wengler³², S. Wenig³², N. Wermes²³, M. D. Werner⁶⁷, P. Werner³², M. Wessels^{60a}, J. Wetter¹⁶⁵, K. Whalen¹¹⁸, N. L. Whallon¹⁴⁰, A. M. Wharton⁷⁵, A. White⁸, M. J. White¹, R. White^{34b}, D. Whiteson¹⁶⁶, F. J. Wickens¹³³, W. Wiedenmann¹⁷⁶, M. Wielers¹³³, C. Wiglesworth³⁹, L. A. M. Wiik-Fuchs²³, A. Wildauer¹⁰³, F. Wilk⁸⁷, H. G. Wilkens³², H. H. Williams¹²⁴, S. Williams¹⁰⁹, C. Willis⁹³, S. Willocq⁸⁹, J. A. Wilson¹⁹, I. Wingerter-Seez⁵, F. Winklmeier¹¹⁸, O. J. Winston¹⁵¹, B. T. Winter²³, M. Wittgen¹⁴⁵, M. Wobisch^{82,r}, T. M. H. Wolf¹⁰⁹, R. Wolff⁸⁸, M. W. Wolter⁴², H. Wolters^{128a,128c}, S. D. Worm¹³³, B. K. Wosiek⁴², J. Wotschack³², M. J. Woudstra⁸⁷, K. W. Wozniak⁴², M. Wu⁵⁸, M. Wu³³, S. L. Wu¹⁷⁶, X. Wu⁵², Y. Wu⁹², T. R. Wyatt⁸⁷, B. M. Wynne⁴⁹, S. Xella³⁹, Z. Xi⁹², D. Xu^{35a}, L. Xu²⁷, B. Yabsley¹⁵², S. Yacoob^{147a}, D. Yamaguchi¹⁵⁹, Y. Yamaguchi¹²⁰, A. Yamamoto⁶⁹, S. Yamamoto¹⁵⁷, T. Yamanaka¹⁵⁷, K. Yamauchi¹⁰⁵, Y. Yamazaki⁷⁰, Z. Yan²⁴, H. Yang^{36c}, H. Yang¹⁷⁶, Y. Yang¹⁵³, Z. Yang¹⁵, W-M. Yao¹⁶, Y. C. Yap⁸³, Y. Yasu⁶⁹, E. Yatsenko⁵, K. H. Yau Wong²³, J. Ye⁴³, S. Ye²⁷, I. Yeletsikh⁶⁸, E. Yildirim⁸⁶, K. Yorita¹⁷⁴, R. Yoshida⁶, K. Yoshihara¹²⁴, C. Young¹⁴⁵, C. J. S. Young³², S. Youssef²⁴, D. R. Yu¹⁶, J. Yu⁸, J. M. Yu⁹², J. Yu⁶⁷, L. Yuan⁷⁰, S. P. Y. Yuen²³, I. Yusuff^{30,at}, B. Zabinski⁴², R. Zaidan⁶⁶, A. M. Zaitsev^{132,ae}, N. Zakharchuk⁴⁵, J. Zalieckas¹⁵, A. Zaman¹⁵⁰, S. Zambito⁵⁹, D. Zanzi⁹¹, C. Zeitnitz¹⁷⁸, M. Zeman¹³⁰, A. Zemla^{41a}, J. C. Zeng¹⁶⁹, Q. Zeng¹⁴⁵, O. Zenin¹³², T. Ženiš^{146a}, D. Zerwas¹¹⁹, D. Zhang⁹², F. Zhang¹⁷⁶, G. Zhang^{36a,an}, H. Zhang^{35b}, J. Zhang⁶, L. Zhang⁵¹, L. Zhang^{36a}, M. Zhang¹⁶⁹, R. Zhang²³, R. Zhang^{36a,au}, X. Zhang^{36b}, Z. Zhang¹¹⁹, X. Zhao⁴³, Y. Zhao^{36b}, Z. Zhao^{36a}, A. Zhemchugov⁶⁸, J. Zhong¹²², B. Zhou⁹², C. Zhou¹⁷⁶, L. Zhou³⁸, L. Zhou⁴³, M. Zhou^{35a}, M. Zhou¹⁵⁰, N. Zhou^{35c}, C. G. Zhu^{36b}, H. Zhu^{35a}, J. Zhu⁹², Y. Zhu^{36a}, X. Zhuang^{35a}, K. Zhukov⁹⁸, A. Zibell¹⁷⁷, D. Zieminska⁶⁴, N. I. Zimine⁶⁸, C. Zimmermann⁸⁶, S. Zimmermann⁵¹, Z. Zinonos⁵⁷, M. Zinser⁸⁶, M. Ziolkowski¹⁴³, L. Živković¹⁴, G. Zobernig¹⁷⁶, A. Zoccoli^{22a,22b}, M. zur Nedden¹⁷, L. Zwalinski³²

¹ Department of Physics, University of Adelaide, Adelaide, Australia

² Physics Department, SUNY Albany, Albany, NY, USA

³ Department of Physics, University of Alberta, Edmonton, AB, Canada

⁴ (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, Turkey

⁵ LAPP, CNRS/IN2P3 and Université Savoie Mont Blanc, Annecy-le-Vieux, France

⁶ High Energy Physics Division, Argonne National Laboratory, Argonne, IL, USA

⁷ Department of Physics, University of Arizona, Tucson, AZ, USA

⁸ Department of Physics, The University of Texas at Arlington, Arlington, TX, USA

⁹ Physics Department, National and Kapodistrian University of Athens, Athens, Greece

¹⁰ Physics Department, National Technical University of Athens, Zografou, Greece

¹¹ Department of Physics, The University of Texas at Austin, Austin, TX, USA

¹² Institute of Physics, Azerbaijan Academy of Sciences, Baku, Azerbaijan

¹³ Institut de Física d'Altes Energies (IFAE), The Barcelona Institute of Science and Technology, Barcelona, Spain

¹⁴ Institute of Physics, University of Belgrade, Belgrade, Serbia

¹⁵ Department for Physics and Technology, University of Bergen, Bergen, Norway

¹⁶ Physics Division, Lawrence Berkeley National Laboratory and University of California, Berkeley, CA, USA

¹⁷ Department of Physics, Humboldt University, Berlin, Germany

¹⁸ Albert Einstein Center for Fundamental Physics and Laboratory for High Energy Physics, University of Bern, Bern, Switzerland

¹⁹ School of Physics and Astronomy, University of Birmingham, Birmingham, UK

²⁰ (a)Department of Physics, Bogazici University, Istanbul, Turkey; (b)Department of Physics Engineering, Gaziantep University, Gaziantep, Turkey; (c)Faculty of Engineering and Natural Sciences, Istanbul Bilgi University, Istanbul, Turkey; (d)Faculty of Engineering and Natural Sciences, Bahcesehir University, Istanbul, Turkey

²¹ Centro de Investigaciones, Universidad Antonio Narino, Bogota, Colombia

²² (a)INFN Sezione di Bologna, Bologna, Italy; (b)Dipartimento di Fisica e Astronomia, Università di Bologna, Bologna, Italy

²³ Physikalisches Institut, University of Bonn, Bonn, Germany

²⁴ Department of Physics, Boston University, Boston, MA, USA

²⁵ Department of Physics, Brandeis University, Waltham, MA, USA

- 26 (a)Universidade Federal do Rio De Janeiro COPPE/EE/IF, Rio de Janeiro, Brazil; (b)Electrical Circuits Department, Federal University of Juiz de Fora (UFJF), Juiz de Fora, Brazil; (c)Federal University of Sao Joao del Rei (UFSJ), São João del Rei, Brazil; (d)Instituto de Física, Universidade de Sao Paulo, São Paulo, Brazil
- 27 Physics Department, Brookhaven National Laboratory, Upton, NY, USA
- 28 (a)Transilvania University of Brasov, Brasov, Romania; (b)National Institute of Physics and Nuclear Engineering, Bucharest, Romania; (c)Physics Department, National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania; (d)University Politehnica Bucharest, Bucharest, Romania; (e)West University in Timisoara, Timisoara, Romania
- 29 Departamento de Física, Universidad de Buenos Aires, Buenos Aires, Argentina
- 30 Cavendish Laboratory, University of Cambridge, Cambridge, UK
- 31 Department of Physics, Carleton University, Ottawa, ON, Canada
- 32 CERN, Geneva, Switzerland
- 33 Enrico Fermi Institute, University of Chicago, Chicago, IL, USA
- 34 (a)Departamento de Física, Pontificia Universidad Católica de Chile, Santiago, Chile; (b)Departamento de Física, Universidad Técnica Federico Santa María, Valparaíso, Chile
- 35 (a)Institute of High Energy Physics, Chinese Academy of Sciences, Beijing, China; (b)Department of Physics, Nanjing University, Jiangsu, China; (c)Physics Department, Tsinghua University, Beijing 100084, China
- 36 (a)Department of Modern Physics, University of Science and Technology of China, Anhui, China; (b)School of Physics, Shandong University, Shandong, China; (c)Department of Physics and Astronomy, Shanghai Key Laboratory for Particle Physics and Cosmology, Shanghai Jiao Tong University (also affiliated with PKU-CHEP), Shanghai, China
- 37 Laboratoire de Physique Corpusculaire, Université Clermont Auvergne, Université Blaise Pascal, CNRS/IN2P3, Clermont-Ferrand, France
- 38 Nevis Laboratory, Columbia University, Irvington, NY, USA
- 39 Niels Bohr Institute, University of Copenhagen, Copenhagen, Denmark
- 40 (a)INFN Gruppo Collegato di Cosenza, Laboratori Nazionali di Frascati, Frascati, Italy; (b)Dipartimento di Fisica, Università della Calabria, Rende, Italy
- 41 (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
- 42 Institute of Nuclear Physics, Polish Academy of Sciences, Kraków, Poland
- 43 Physics Department, Southern Methodist University, Dallas, TX, USA
- 44 Physics Department, University of Texas at Dallas, Richardson, TX, USA
- 45 DESY, Hamburg and Zeuthen, Germany
- 46 Lehrstuhl für Experimentelle Physik IV, Technische Universität Dortmund, Dortmund, Germany
- 47 Institut für Kern- und Teilchenphysik, Technische Universität Dresden, Dresden, Germany
- 48 Department of Physics, Duke University, Durham, NC, USA
- 49 SUPA-School of Physics and Astronomy, University of Edinburgh, Edinburgh, UK
- 50 INFN Laboratori Nazionali di Frascati, Frascati, Italy
- 51 Fakultät für Mathematik und Physik, Albert-Ludwigs-Universität, Freiburg, Germany
- 52 Departement de Physique Nucleaire et Corpusculaire, Université de Genève, Geneva, Switzerland
- 53 (a)INFN Sezione di Genova, Genoa, Italy; (b)Dipartimento di Fisica, Università di Genova, Genoa, Italy
- 54 (a)E. Andronikashvili Institute of Physics, Iv. Javakhishvili Tbilisi State University, Tbilisi, Georgia; (b)High Energy Physics Institute, Tbilisi State University, Tbilisi, Georgia
- 55 II Physikalisches Institut, Justus-Liebig-Universität Giessen, Giessen, Germany
- 56 SUPA-School of Physics and Astronomy, University of Glasgow, Glasgow, UK
- 57 II Physikalisches Institut, Georg-August-Universität, Göttingen, Germany
- 58 Laboratoire de Physique Subatomique et de Cosmologie, Université Grenoble-Alpes, CNRS/IN2P3, Grenoble, France
- 59 Laboratory for Particle Physics and Cosmology, Harvard University, Cambridge, MA, USA
- 60 (a)Kirchhoff-Institut für Physik, Ruprecht-Karls-Universität Heidelberg, Heidelberg, Germany; (b)Physikalisches Institut, Ruprecht-Karls-Universität Heidelberg, Heidelberg, Germany; (c)ZITI Institut für technische Informatik, Ruprecht-Karls-Universität Heidelberg, Mannheim, Germany
- 61 Faculty of Applied Information Science, Hiroshima Institute of Technology, Hiroshima, Japan

- 62 (a)Department of Physics, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong; (b)Department of Physics, The University of Hong Kong, Hong Kong, China; (c)Department of Physics and Institute for Advanced Study, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong, China
- 63 Department of Physics, National Tsing Hua University, Hsinchu, Taiwan
- 64 Department of Physics, Indiana University, Bloomington, IN, USA
- 65 Institut für Astro- und Teilchenphysik, Leopold-Franzens-Universität, Innsbruck, Austria
- 66 University of Iowa, Iowa City, IA, USA
- 67 Department of Physics and Astronomy, Iowa State University, Ames, IA, USA
- 68 Joint Institute for Nuclear Research, JINR Dubna, Dubna, Russia
- 69 KEK, High Energy Accelerator Research Organization, Tsukuba, Japan
- 70 Graduate School of Science, Kobe University, Kobe, Japan
- 71 Faculty of Science, Kyoto University, Kyoto, Japan
- 72 Kyoto University of Education, Kyoto, Japan
- 73 Department of Physics, Kyushu University, Fukuoka, Japan
- 74 Instituto de Física La Plata, Universidad Nacional de La Plata and CONICET, La Plata, Argentina
- 75 Physics Department, Lancaster University, Lancaster, UK
- 76 (a)INFN Sezione di Lecce, Lecce, Italy; (b)Dipartimento di Matematica e Fisica, Università del Salento, Lecce, Italy
- 77 Oliver Lodge Laboratory, University of Liverpool, Liverpool, UK
- 78 Department of Experimental Particle Physics, Jožef Stefan Institute and Department of Physics, University of Ljubljana, Ljubljana, Slovenia
- 79 School of Physics and Astronomy, Queen Mary University of London, London, UK
- 80 Department of Physics, Royal Holloway University of London, Surrey, UK
- 81 Department of Physics and Astronomy, University College London, London, UK
- 82 Louisiana Tech University, Ruston, LA, USA
- 83 Laboratoire de Physique Nucléaire et de Hautes Energies, UPMC and Université Paris-Diderot and CNRS/IN2P3, Paris, France
- 84 Fysiska institutionen, Lunds universitet, Lund, Sweden
- 85 Departamento de Física Teórica C-15, Universidad Autónoma de Madrid, Madrid, Spain
- 86 Institut für Physik, Universität Mainz, Mainz, Germany
- 87 School of Physics and Astronomy, University of Manchester, Manchester, UK
- 88 CPPM, Aix-Marseille Université and CNRS/IN2P3, Marseille, France
- 89 Department of Physics, University of Massachusetts, Amherst, MA, USA
- 90 Department of Physics, McGill University, Montreal, QC, Canada
- 91 School of Physics, University of Melbourne, Melbourne, VIC, Australia
- 92 Department of Physics, The University of Michigan, Ann Arbor, MI, USA
- 93 Department of Physics and Astronomy, Michigan State University, East Lansing, MI, USA
- 94 (a)INFN Sezione di Milano, Milan, Italy; (b)Dipartimento di Fisica, Università di Milano, Milan, Italy
- 95 B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Republic of Belarus
- 96 Research Institute for Nuclear Problems of Byelorussian State University, Minsk, Republic of Belarus
- 97 Group of Particle Physics, University of Montreal, Montreal, QC, Canada
- 98 P.N. Lebedev Physical Institute of the Russian Academy of Sciences, Moscow, Russia
- 99 Institute for Theoretical and Experimental Physics (ITEP), Moscow, Russia
- 100 National Research Nuclear University MEPhI, Moscow, Russia
- 101 D.V. Skobeltsyn Institute of Nuclear Physics, M.V. Lomonosov Moscow State University, Moscow, Russia
- 102 Fakultät für Physik, Ludwig-Maximilians-Universität München, Munich, Germany
- 103 Max-Planck-Institut für Physik (Werner-Heisenberg-Institut), Munich, Germany
- 104 Nagasaki Institute of Applied Science, Nagasaki, Japan
- 105 Graduate School of Science and Kobayashi-Maskawa Institute, Nagoya University, Nagoya, Japan
- 106 (a)INFN Sezione di Napoli, Naples, Italy; (b)Dipartimento di Fisica, Università di Napoli, Naples, Italy
- 107 Department of Physics and Astronomy, University of New Mexico, Albuquerque, NM, USA
- 108 Institute for Mathematics, Astrophysics and Particle Physics, Radboud University Nijmegen/Nikhef, Nijmegen, Netherlands
- 109 Nikhef National Institute for Subatomic Physics and University of Amsterdam, Amsterdam, Netherlands

- 110 Department of Physics, Northern Illinois University, DeKalb, IL, USA
111 Budker Institute of Nuclear Physics, SB RAS, Novosibirsk, Russia
112 Department of Physics, New York University, New York, NY, USA
113 Ohio State University, Columbus, OH, USA
114 Faculty of Science, Okayama University, Okayama, Japan
115 Homer L. Dodge Department of Physics and Astronomy, University of Oklahoma, Norman, OK, USA
116 Department of Physics, Oklahoma State University, Stillwater, OK, USA
117 Palacký University, RCPTM, Olomouc, Czech Republic
118 Center for High Energy Physics, University of Oregon, Eugene, OR, USA
119 LAL, Univ. Paris-Sud, CNRS/IN2P3, Université Paris-Saclay, Orsay, France
120 Graduate School of Science, Osaka University, Osaka, Japan
121 Department of Physics, University of Oslo, Oslo, Norway
122 Department of Physics, Oxford University, Oxford, UK
123 ^(a)INFN Sezione di Pavia, Pavia, Italy; ^(b)Dipartimento di Fisica, Università di Pavia, Pavia, Italy
124 Department of Physics, University of Pennsylvania, Philadelphia, PA, USA
125 National Research Centre “Kurchatov Institute” B.P. Konstantinov Petersburg Nuclear Physics Institute, St. Petersburg, Russia
126 ^(a)INFN Sezione di Pisa, Pisa, Italy; ^(b)Dipartimento di Fisica E. Fermi, Università di Pisa, Pisa, Italy
127 Department of Physics and Astronomy, University of Pittsburgh, Pittsburgh, PA, USA
128 ^(a)Laboratório de Instrumentação e Física Experimental de Partículas-LIP, Lisbon, Portugal; ^(b)Faculdade de Ciências, Universidade de Lisboa, Lisbon, Portugal; ^(c)Department of Physics, University of 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 and CAFPE, Universidad de Granada, Granada, Spain; ^(g)Dep Física and CEFITEC of Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal
129 Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic
130 Czech Technical University in Prague, Prague, Czech Republic
131 Faculty of Mathematics and Physics, Charles University in Prague, Prague, Czech Republic
132 State Research Center Institute for High Energy Physics (Protvino), NRC KI, Protvino, Russia
133 Particle Physics Department, Rutherford Appleton Laboratory, Didcot, UK
134 ^(a)INFN Sezione di Roma, Rome, Italy; ^(b)Dipartimento di Fisica, Sapienza Università di Roma, Rome, Italy
135 ^(a)INFN Sezione di Roma Tor Vergata, Rome, Italy; ^(b)Dipartimento di Fisica, Università di Roma Tor Vergata, Rome, Italy
136 ^(a)INFN Sezione di Roma Tre, Rome, Italy; ^(b)Dipartimento di Matematica e Fisica, Università Roma Tre, Rome, Italy
137 ^(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 Nucleaires, 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
138 DSM/IRFU (Institut de Recherches sur les Lois Fondamentales de l’Univers), CEA Saclay (Commissariat à l’Energie Atomique et aux Energies Alternatives), Gif-sur-Yvette, France
139 Santa Cruz Institute for Particle Physics, University of California Santa Cruz, Santa Cruz, CA, USA
140 Department of Physics, University of Washington, Seattle, WA, USA
141 Department of Physics and Astronomy, University of Sheffield, Sheffield, UK
142 Department of Physics, Shinshu University, Nagano, Japan
143 Fachbereich Physik, Universität Siegen, Siegen, Germany
144 Department of Physics, Simon Fraser University, Burnaby, BC, Canada
145 SLAC National Accelerator Laboratory, Stanford, CA, USA
146 ^(a)Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, Slovak Republic; ^(b)Department of Subnuclear Physics, Institute of Experimental Physics of the Slovak Academy of Sciences, Kosice, Slovak Republic
147 ^(a)Department of Physics, University of Cape Town, Cape Town, South Africa; ^(b)Department of Physics, University of Johannesburg, Johannesburg, South Africa; ^(c)School of Physics, University of the Witwatersrand, Johannesburg, South Africa

- 148 (a)Department of Physics, Stockholm University, Stockholm, Sweden; (b)The Oskar Klein Centre, Stockholm, Sweden
 149 Physics Department, Royal Institute of Technology, Stockholm, Sweden
 150 Departments of Physics and Astronomy and Chemistry, Stony Brook University, Stony Brook, NY, USA
 151 Department of Physics and Astronomy, University of Sussex, Brighton, UK
 152 School of Physics, University of Sydney, Sydney, Australia
 153 Institute of Physics, Academia Sinica, Taipei, Taiwan
 154 Department of Physics, Technion: Israel Institute of Technology, Haifa, Israel
 155 Raymond and Beverly Sackler School of Physics and Astronomy, Tel Aviv University, Tel Aviv, Israel
 156 Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece
 157 International Center for Elementary Particle Physics and Department of Physics, The University of Tokyo, Tokyo, Japan
 158 Graduate School of Science and Technology, Tokyo Metropolitan University, Tokyo, Japan
 159 Department of Physics, Tokyo Institute of Technology, Tokyo, Japan
 160 Tomsk State University, Tomsk, Russia
 161 Department of Physics, University of Toronto, Toronto, ON, Canada
 162 (a)INFN-TIFPA, Trento, Italy; (b)University of Trento, Trento, Italy
 163 (a)TRIUMF, Vancouver, BC, Canada; (b)Department of Physics and Astronomy, York University, Toronto, ON, Canada
 164 Faculty of Pure and Applied Sciences, and Center for Integrated Research in Fundamental Science and Engineering, University of Tsukuba, Tsukuba, Japan
 165 Department of Physics and Astronomy, Tufts University, Medford, MA, USA
 166 Department of Physics and Astronomy, University of California Irvine, Irvine, CA, USA
 167 (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
 168 Department of Physics and Astronomy, University of Uppsala, Uppsala, Sweden
 169 Department of Physics, University of Illinois, Urbana, IL, USA
 170 Instituto de Física Corpuscular (IFIC) and Departamento de Física Atomica, Molecular y Nuclear and Departamento de Ingeniería Electrónica and Instituto de Microelectrónica de Barcelona (IMB-CNM), University of Valencia and CSIC, Valencia, Spain
 171 Department of Physics, University of British Columbia, Vancouver, BC, Canada
 172 Department of Physics and Astronomy, University of Victoria, Victoria, BC, Canada
 173 Department of Physics, University of Warwick, Coventry, UK
 174 Waseda University, Tokyo, Japan
 175 Department of Particle Physics, The Weizmann Institute of Science, Rehovot, Israel
 176 Department of Physics, University of Wisconsin, Madison, WI, USA
 177 Fakultät für Physik und Astronomie, Julius-Maximilians-Universität, Würzburg, Germany
 178 Fakultät für Mathematik und Naturwissenschaften, Fachgruppe Physik, Bergische Universität Wuppertal, Wuppertal, Germany
 179 Department of Physics, Yale University, New Haven, CT, USA
 180 Yerevan Physics Institute, Yerevan, Armenia
 181 Centre de Calcul de l'Institut National de Physique Nucléaire et de Physique des Particules (IN2P3), Villeurbanne, France
- ^a Also at Department of Physics, King's College London, London, UK
^b Also at Institute of Physics, Azerbaijan Academy of Sciences, Baku, Azerbaijan
^c Also at Novosibirsk State University, Novosibirsk, Russia
^d Also at TRIUMF, Vancouver, BC, Canada
^e Also at Department of Physics and Astronomy, University of Louisville, Louisville, KY, USA
^f Also at Physics Department, An-Najah National University, Nablus, Palestine
^g Also at Department of Physics, California State University, Fresno, CA, USA
^h Also at Department of Physics, University of Fribourg, Fribourg, Switzerland
ⁱ Also at Departament de Física de la Universitat Autònoma de Barcelona, Barcelona, Spain
^j Also at Departamento de Física e Astronomia, Faculdade de Ciências, Universidade do Porto, Porto, Portugal
^k Also at Tomsk State University, Tomsk, Russia
^l Also at Università di Napoli Parthenope, Napoli, Italy
^m Also at Institute of Particle Physics (IPP), Canada

- ⁿ Also at National Institute of Physics and Nuclear Engineering, Bucharest, Romania
- ^o Also at Department of Physics, St. Petersburg State Polytechnical University, St. Petersburg, Russia
- ^p Also at Department of Physics, The University of Michigan, Ann Arbor, MI, USA
- ^q Also at Centre for High Performance Computing, CSIR Campus, Rosebank, Cape Town, South Africa
- ^r Also at Louisiana Tech University, Ruston, LA, USA
- ^s Also at Institutio Catalana de Recerca i Estudis Avancats, ICREA, Barcelona, Spain
- ^t Also at Graduate School of Science, Osaka University, Osaka, Japan
- ^u Also at Institute for Mathematics, Astrophysics and Particle Physics, Radboud University Nijmegen/Nikhef, Nijmegen, Netherlands
- ^v Also at Department of Physics, The University of Texas at Austin, Austin, TX, USA
- ^w Also at Institute of Theoretical Physics, Ilia State University, Tbilisi, Georgia
- ^x Also at CERN, Geneva, Switzerland
- ^y Also at Georgian Technical University (GTU), Tbilisi, Georgia
- ^z Also at Ochadai Academic Production, Ochanomizu University, Tokyo, Japan
- ^{aa} Also at Manhattan College, New York, NY, USA
- ^{ab} Also at Academia Sinica Grid Computing, Institute of Physics, Academia Sinica, Taipei, Taiwan
- ^{ac} Also at School of Physics, Shandong University, Shandong, China
- ^{ad} Also at Department of Physics, California State University, Sacramento CA, USA
- ^{ae} Also at Moscow Institute of Physics and Technology, State University, Dolgoprudny, Russia
- ^{af} Also at Departement de Physique Nucleaire et Corpusculaire, Université de Genève, Geneva, Switzerland
- ^{ag} Also at Eotvos Lorand University, Budapest, Hungary
- ^{ah} Also at International School for Advanced Studies (SISSA), Trieste, Italy
- ^{ai} Also at Department of Physics and Astronomy, University of South Carolina, Columbia, SC, USA
- ^{aj} Also at Institut de Física d'Altes Energies (IFAE), The Barcelona Institute of Science and Technology, Barcelona, Spain
- ^{ak} Also at School of Physics and Engineering, Sun Yat-sen University, Guangzhou, China
- ^{al} Also at Institute for Nuclear Research and Nuclear Energy (INRNE) of the Bulgarian Academy of Sciences, Sofia, Bulgaria
- ^{am} Also at Faculty of Physics, M.V.Lomonosov Moscow State University, Moscow, Russia
- ^{an} Also at Institute of Physics, Academia Sinica, Taipei, Taiwan
- ^{ao} Also at National Research Nuclear University MEPhI, Moscow, Russia
- ^{ap} Also at Department of Physics, Stanford University, Stanford, CA, USA
- ^{aq} Also at Institute for Particle and Nuclear Physics, Wigner Research Centre for Physics, Budapest, Hungary
- ^{ar} Also at Giresun University, Faculty of Engineering, Turkey
- ^{as} Also at Flensburg University of Applied Sciences, Flensburg, Germany
- ^{at} Also at University of Malaya, Department of Physics, Kuala Lumpur, Malaysia
- ^{au} Also at CPPM, Aix-Marseille Université and CNRS/IN2P3, Marseille, France
- * Deceased