

Erratum to: Study of charged hadron multiplicities in charged-current neutrino–lead interactions in the OPERA detector

N. Agafonova¹, A. Aleksandrov², A. Anokhina³, S. Aoki⁴, A. Ariga⁵, T. Ariga^{5,6}, A. Bertolin⁷, I. Bodnarchuk⁸, C. Bozza⁹, R. Brugnera^{7,10}, A. Buonauro^{2,11}, S. Buontempo², M. Chernyavskiy¹², A. Chukanov⁸, L. Consiglio², N. D'Ambrosio¹³, G. De Lellis^{2,11}, M. De Serio^{14,15}, P. del Amo Sanchez¹⁶, A. Di Crescenzo^{2,11}, D. Di Ferdinando¹⁷, N. Di Marco¹³, S. Dmitrievski⁸, M. Dracos¹⁸, D. Duchesneau¹⁶, S. Dusini⁷, T. Dzhatdoev³, J. Ebert¹⁹, A. Ereditato⁵, R. A. Fini¹⁵, F. Fornari^{17,20}, T. Fukuda²¹, G. Galati^{2,11}, A. Garfagnini^{7,10}, V. Gentile³⁶, J. Goldberg²², Y. Gornushkin⁸, S. Gorbunov¹², G. Grella⁹, A. M. Guler^{23,a}, C. Gustavino²⁵, C. Hagner¹⁹, T. Hara⁴, T. Hayakawa²¹, A. Hollnagel¹⁹, B. Hosseini^{2,11}, K. Ishiguro²¹, K. Jakovcic²⁶, C. Jollet¹⁸, C. Kamiscioglu^{23,24,b}, M. Kamiscioglu²³, S. H. Kim²⁷, N. Kitagawa²¹, B. Klicek²⁸, K. Kodama²⁹, M. Komatsu²¹, U. Kose⁷, I. Kreslo⁵, F. Laudisio^{7,10}, A. Lauria^{2,11}, A. Ljubicic²⁶, A. Longhin⁷, P. Loverre²⁵, A. Malgin¹, M. Malenica²⁶, G. Mandrioli¹⁷, T. Matsuo³⁰, V. Matveev¹, N. Mauri^{17,20}, E. Medinaceli^{7,10}, A. Meregaglia¹⁸, S. Mikado³¹, M. Miyanishi²¹, F. Mizutani⁴, P. Monacelli²⁵, M. C. Montesi^{2,11}, K. Morishima²¹, M. T. Muciaccia^{14,15}, N. Naganawa²¹, T. Naka²¹, M. Nakamura²¹, T. Nakano²¹, K. Niwa²¹, N. Okateva¹², S. Ogawa³⁰, K. Ozaki⁴, A. Paoloni³², L. Paparella^{14,15}, B. D. Park²⁷, L. Pasqualini^{17,20}, A. Pastore^{14,15}, L. Patrizii¹⁷, H. Pessard¹⁶, D. Podgrudkov³, N. Polukhina^{12,33}, M. Pozzato^{17,20}, F. Pupilli⁷, M. Roda^{7,10}, T. Roganova³, H. Rokujo²¹, G. Rosa²⁵, O. Ryazhskaya¹, O. Sato²¹, A. Schembri¹³, I. Shakirianova¹, T. Shchedrina¹², H. Shibuya³⁰, E. Shibayama⁴, T. Shiraishi²¹, S. Simone^{14,15}, C. Sirignano^{7,10}, G. Sirri¹⁷, A. Sotnikov⁸, M. Spinetti³², L. Stanco⁷, N. Starkov¹², S. M. Stellacci⁹, M. Stipcevic²⁸, P. Strolin^{2,11}, S. Takahashi⁴, M. Tenti¹⁷, F. Terranova³⁵, V. Tioukov², S. Vasina⁸, P. Vilain³⁴, E. Voevodina², L. Votano³², J. L. Vuilleumier⁵, G. Wilquet³⁴, B. Wonsak¹⁹, C. S. Yoon²⁷

¹ INR - Institute for Nuclear Research of the Russian Academy of Sciences, 117312 Moscow, Russia

² INFN Sezione di Napoli, 80125 Napoli, Italy

³ SINP MSU - Skobel'syn Institute of Nuclear Physics, Lomonosov Moscow State University, 119991 Moscow, Russia

⁴ Kobe University, 657-8501 Kobe, Japan

⁵ Albert Einstein Center for Fundamental Physics, Laboratory for High Energy Physics (LHEP), University of Bern, 3012 Bern, Switzerland

⁶ Faculty of Arts and Science, Kyushu University, Fukuoka, Japan

⁷ INFN Sezione di Padova, 35131 Padova, Italy

⁸ JINR - Joint Institute for Nuclear Research, 141980 Dubna, Russia

⁹ Dipartimento di Fisica dell'Università di Salerno and "Gruppo Collegato" INFN, 84084, Fisciano Salerno, Italy

¹⁰ Dipartimento di Fisica e Astronomia dell'Università di Padova, 35131 Padova, Italy

¹¹ Dipartimento di Fisica dell'Università Federico II di Napoli, 80125 Napoli, Italy

¹² LPI - Lebedev Physical Institute of the Russian Academy of Sciences, 119991 Moscow, Russia

¹³ INFN-Laboratori Nazionali del Gran Sasso, 67010, Assergi L'Aquila, Italy

¹⁴ Dipartimento di Fisica dell'Università di Bari, 70126 Bari, Italy

¹⁵ INFN Sezione di Bari, 70126 Bari, Italy

¹⁶ LAPP, Université Savoie Mont Blanc, CNRS/IN2P3, 74941 Annecy-le-Vieux, France

¹⁷ INFN Sezione di Bologna, 40127 Bologna, Italy

¹⁸ IPHC, Université de Strasbourg, CNRS/IN2P3, 67037 Strasbourg, France

¹⁹ Hamburg University, 22761 Hamburg, Germany

²⁰ Dipartimento di Fisica e Astronomia dell'Università di Bologna, 40127 Bologna, Italy

²¹ Nagoya University, 464-8602 Nagoya, Japan

²² Department of Physics, Technion, 32000 Haifa, Israel

²³ METU - Middle East Technical University, 06800 Ankara, Turkey

²⁴ Ankara University, 06560 Ankara, Turkey

²⁵ INFN Sezione di Roma, 00185 Rome, Italy

²⁶ Rudjer Boskovic Institute, 10002 Zagreb, Croatia

²⁷ Gyeongsang National University, 900 Gazwa-dong, Jinju 660-701, South Korea

²⁸ Center of Excellence for Advanced Materials and Sensing Devices, Ruder Bošković Institute, 10002 Zagreb, Croatia

²⁹ Aichi University of Education, 448-8542, Kariya Aichi, Japan

³⁰ Toho University, 274-8510 Funabashi, Japan

³¹ Nihon University, 275-8576, Narashino Chiba, Japan

³² INFN - Laboratori Nazionali di Frascati dell'INFN, 00044 Frascati, Rome, Italy

³³ Moscow Engineering Physical Institute Moscow, Moscow, Russia

³⁴ IIHE, Université Libre de Bruxelles, 1050 Brussels, Belgium

³⁵ Dipartimento di Fisica dell'Università di Milano-Bicocca, 20126 Milan, Italy

³⁶ Gran Sasso Science Institute, L'Aquila, Italy

Received: 2 August 2018 / Accepted: 4 September 2018 / Published online: 18 September 2018

© The Author(s) 2018

Erratum to: Eur. Phys. J. C (2018) 78:62

<https://doi.org/10.1140/epjc/s10052-017-5509-y>

1. Section Analysis, line 9:

sub-sample of 818 events becomes sub-sample of 817 events

Open Access This article is distributed under the terms of the Creative Commons Attribution 4.0 International License (<http://creativecommons.org/licenses/by/4.0/>), which permits unrestricted use, distribution, and reproduction in any medium, provided you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. Funded by SCOAP³.

The original article can be found online at <https://doi.org/10.1140/epjc/s10052-017-5509-y>.

B. Hosseini: Now at Sezione INFN di Cagliari.

U. Kose: Now at CERN.

E. Medinaceli: Now at Osservatorio Astronomico di Padova.

M. Roda: Now at University of Liverpool.

^ae-mail: ali.murat.guler@cern.ch

^be-mail: Cagin.Gunes@ankara.edu.tr