Coll 1: AGATA22.04-Collaboration

Rainer Abels[1], Peter Reiter[1], Konrad Arnswald[1], Daniele Brugnara[2], Dino Bazzacco[3], Giovanna Benzoni[4], Nives Blasi[4], Angela Bracco[4], Ramona Burggraf[1], Franco Camera[4], Lorenzo Corradi[2], Fabio Celso Luigi Crespi[4], Giacomo de Angelis[2], Maximilian Droste[1], Enrico Fioretto[2], Andrés Gadea[5], Angela Gargano[2], Andrea Gottardo[2], Kai Henseler[1], Herbert Hess[1], Rouven Hirsch[1], Elisa Kleis[1], Hannah Kleis[10], Michalina Komorowska[8], Md Sazedur Rahaman Laskar[4], Silvia Lenzi[3], Silvia Leoni[4], Darius Luyken[1], Roberto Menegazzo[3], Daniele Mengoni[3], Tea Mijatovic[7], Bénédicte Million[4], Daniel R. Napoli[2], Julgen Pellumaj[2], Rosa Pérez-Vidal[2,9], Zsolt Podolyak[6], Francesco Recchia[3], Alessandro Salice[1], Fernando Scarlassara[3], Benito Gongora Servin[2], Alberto Stefanini[2], Suzana Szilner[7], Jose Javier Valiente-Dobon[11], Andreas Vogt[1], Sven Wagner[1], David Werner[1], Oliver Wieland[4], and Luca Zago[2] — [1]Institut für Kernphysik, Universität zu Köln, D50937 Köln, Germany — [2]INFN - Laboratori Nazionali di Legnaro, Italy — [3]Italy Departimento di Fisica dell'Universita and INFN, Sezione di Padova, I-35131 Padova, Italy — [4]INFN and Università di Milano, Italy — [5]Instituto de Fisica Corpuscular, Universitat de Valencia. E- 46071 Valencia. Spain — [6]Department of Physics, University of Surrey, Guildford GU2 7XH, United Kingdom — [7]Ruder Boskovic Institute, HR-10 001 Zagreb, Croatia — [8]HIL, University of Warsaw, Poland — [9]Instituto de Fisica Corpuscular, CSIC-Universidad de Valencia, Valencia, Spain — [10]Department of Physics, University of Liverpool, Liverpool L69 7ZE, United Kingdom — [11]Instituto de Física Corpuscular, CSIC-Universidad de Valencia, 46980, Valencia, Spain

Coll 2: ALBATOR-Collaboration

Matthieu Cavellier[1], Arnaud Masson[1], Romain Bellet[1], Julien Le Romancer[1], Antoine Miniussi[1], Matthieu Franc[1], Charles Bitaud[1], Amalia Lefeuvre[1], Mario Merino[2], Eduardo Ahedo[2], Jiewei Zhou[2], Alberto Marin Cebrian[2], Kristof Holste[3], Peter Klar[3], Holger Kersten[4], Thomas Trottenberg[4], Viktor Schneider[4], Ignacio Cires[5], Christophe Schank[5], Guillermo Escribano[5], Max Zeyen[5], Manuel Sanjurjo[5], Matteo Budoni[5], and Shrouti Dutta[5] — [1]Osmos X, France — [2]Plasma and Space Propulsion Team (EP2), Department of Aerospace Engineering, Universidad Carlos III de Madrid, Spain — [3]Ion Thrusters, Institute of Experimental Physics I, Justus-Liebig-University Giessen, Germany — [4]Plasma Technology, Institute of Experimental and Applied Physics, Christian-Albrechts University Kiel, Germany — [5]Northstar Earth & Space Europe, Luxembourg

Coll 3: ALICE Germany-Collaboration

Omar Abdelrahman[7], Anil Adigüzel[7], Valentina Akishina[1], Mohammad Al-Turany[8], Torsten Alt[3], Igor Altsybeev[7], Anton Andronic[9], Venelin Anguelov[6], Harald Appelshäuser[3], Ralf Peter Averbeck[8], Raphaelle Marie Bailhache[3], Esther Bartsch[3], Pascal Becht[8], Anastasia Berdnikova[6], Ante Bilandzic[7], Mihail Bogdan Blidaru[8], Nora Bluhme[1], Christoph Blume[3], Andres Gerardo Borquez Carcamo[6], Lars Bratrud[3], Peter Braun-Munzinger[8], Henner Buesching[3], Bent Benedikt Buttwill[6], Maria Alejandra Calmon Behling[3], Emma Sophia Chizzali[7,10], Gautam Dange[1], Archita Rani Dash[9], Jan de Cuveland[1], Janik Ditzel[3], Benjamin Dönigus[3], Lars Döpper[2], Andrea Dubla[8], Tabea Maria Eder[9], Emma Charlotte Ege[3], Florian Eisenhut[3], Yousseff El Mard Bouziani[3], Luis Escalante-Hüsch[3], Laura Fabbietti[7], Ilya Fokin[6], Henrik Fribert[7], Laura Gans-Bartl[3], Jose Maria Garabatos Cuadrado[8], Piotr Jan Gasik[8], Hari Mohan Gaur[1], Roman Gernhäuser[7], Peter Glässel[6], Jaime Gonzalez Gonzalez[7], Malte Grönbeck[2], Simon Gross-Bölting[8], Raffaele Grosso[8], Jossy Rasmus Paul Grundmann[7], Nadine Alice Grünwald[6], Tuba Gündem[3], Lennart Halstenberg[9], Michael Volker Hartung[3], Philip Hauer[2], Marvin Hemmer[3], Johannes Hensler[6], Benedict Heybeck[3], Felix Willi Hoffmann[4], Dirk Hutter[1], Marian Ivanov[8], Thomas Janson[4], Janis Noah Jäger[3], Yuanjing Ji[8], Jerome Jung[3], Michael Jung[3], Anouk Ilka Paulina Kaiser[6], Vincent Kast[3], Udo Wolfgang Kebschull[4], Bernhard Ketzer[2], Johannes Keul[3], Zhanna Khuranova[3], Julius Thomas Kinner[9], Lena Kirchner[7], Ivan Kisel[1], Christian Klein-Bösing[9], Matthias Kleiner[3], Thorsten Sven Kollegger[8], Joshua Leon Konig[3], Maximilian Korwieser[7], Grigory Kozlov[1], Mario Krüger[3], Sarah Louise La Pointe[1], Lukas Lautner[7], Gauthier Legras[9], Johannes Lehrbach[1], Marcel Markus Lesch[7], Volker Lindenstruth[1], Christian Lippmann[8], Belana Lubinski[3], Oleksii Lubynets[8,6], Maximilian Mahlein[7], Rafael Stefan Manhart[7], Philipp Mann[7], Valentina Mantovani Sarti[7], Georgios Mantzaridis[7], Ana Maria Marin[8], Silvia Masciocchi[8], Nils Meurer[3], Dimitar Lubomirov Mihaylov[7], Dariusz Czeslaw Miśkowiec[8], Denise Aparecida Moreira De Godoy Willems[9], Stefanie Mrozinski[3], Robert Helmut Münzer[3], Abhishek Nath[6], Alexander Rachev[2], Rutuparna Rath[8], Andreas Ralph Redelbach[1], Carolina Anna Reetz[8], Klaus Johannes Reygers[6], Anton Albert Riedel[7], Samrangy Sadhu[2], Jan Klaus Scharf[3], Rainer Martin Schicker[6], Alexander Schmah[8], Christian Alberto Schmidt[8], Martin Schmidt[5], Jan Schöngarth[3], Arnold Schröter[1], Kai Oliver Schweda[8], Ilya Selyuzhenkov[8], Jin Joo Seo[6], Georgijs Skorodumovs[6], Christian Sonnabend[8], Maximilian Thomas Spors[2], Johanna Stachel[6], Phil Lennart Stahlhut[6], Tim Stellhorn[9], Stephan Friedrich Stiefelmaier[6], Nicolas Justus Strangmann[3], Peter Stratmann[9], Seyed Farid Taghavi[7], Alexander Marco Tiekötter[9], Nicolas Tiltmann[9], Alberica Toia[3], Berkin Ulukutlu[7], Casper Arie van Veen[6], Felix Thomas Weiglhofer[1], Johannes Peter Wessels[9], Jens Wiechula[3], Jeremy John Wilkinson[8], Guido Alexander Willems[9], Nicola Wilson[6], Bernd Stefan Windelband[6], Jonathan Caspar Witte[8,6], Ankur Yadav[2], Alperen Yuncu[6], Federica Zanone[6], Carla Sophie Zeyn[7], Biao Zhang[6], and Senjie Zhu[8] — [1]Frankfurt Institute for Advanced Studies, Johann Wolfgang Goethe-Universität Frankfurt, Frankfurt, Germany — [2]Helmholtz-Institut für Strahlen- und Kernphysik, Rheinische Friedrich-Wilhelms-Universität Bonn, Bonn, Germany — [3]Institut für Kernphysik, Johann Wolfgang Goethe-Universität Frankfurt, Frankfurt, Germany — [4]Johann-Wolfgang-Goethe Universität Frankfurt Institut für Informatik, Fachbereich Informatik und Mathematik, Frankfurt, Germany — [5]Physikalisches Institut, Eberhard-Karls-Universität Tübingen, Tübingen, Germany — [6]Physikalisches Institut, Ruprecht-Karls-Universität Heidelberg, Heidelberg, Germany — [7]Technical University of Munich, TUM School of Natural Sciences, Department of Physics, Garching, Germany — [8]Research Division and ExtreMe Matter Institute EMMI, GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany — [9]Institut für Kernphysik, Universität Münster, Münster, Germany — [10]Max-Planck-Institut für Physik, Munich, Germany

Coll 4: AMBER-Collaboration

Guennadi Alexeev[2], Maxim Alexeev[3,4], Chiara Alice[3,4], Mariana Almeida[8], Antonio Amoroso[3,4], Vincent Andrieux[26], Nikolai Anfimov[2], Vladimir Anosov[2], Carlos Garcia Argos[6], Kamil Augsten[7], Carlos Azevedo[8], Barbara Badelek[9], Reinhard Beck[10], Vendula Benesova[11], Jorge Berenguer Antequera[12], Jan C. Bernauer[13], Brandon Tyler Blankenship[29], Johannes Conrad Borgwarth[6], Andrea Bressan[1,14], Kai-Thomas Brinkmann[15], Andrzej Buchowicz[16], Bryan Casanelli[8], Buwam Chaminda[17], Arpan Chatterjee[25], Chandradoy Chatterjee[1], Michela Chiosso[3,4], Andres Cicuttin[1,18], Ethan Cline[13], Giorgio Cotto[3,4], Maria Liz Crespo[1,18], Silvia Dalla Torre[1], Shuddha Shankar Dasgupta[19], Filippo Delcarro[3,4], Oleg Denisov[3], Mehran Dehpour[11], Stefan Diehl[15], Norihiro Doshita[22], Krzysztof Dygnarowicz[16], Zoe Olivia Earnshaw[11], Karl Eichhorn[23], Horst Fischer[6], Karl J. Floethner[10], Jan M. Friedrich[23], Vladimir Frolov[2], Grzegorz Galinski[16], Luis Garcia Ordonez[1,18], Oleg Gavrichtchouk[2], Sergei Gerassimov[23], Davide Giordano[20,21], Alexi Gondadze[2], Andrei Gridin[2], Stefan Groote[25], Antonio Grossi Bassi[1,18], Marcus Grüner[10], Francesco Guerra[4], Rumen Gushterski[2], Alexey Guskov[2], Max Hariegel[10], Pascal Henkel[10], Martin Hoffmann[10], Jozef Hrdy[7], Peter Hurck[10], Vladimir Jary[7], Rainer Joosten[10], Eva-Maria Kabuss[26], Dustin Keller[17], Albi Kerbizi[1,14], Bernhard Ketzer[10], Oleg Kiselev[24], Tomas Klasek[11], Max Knauseder[10], Igor Konorov[23], Oleg Kouznetsov[2], Anatolii Koval[27], Natalia Kovyazina[2], Jakob Krauss[10], Krzysztof Kurek[27], Robert Kurjata[16], Jonathan Kunecke[10], Antonin Kveton[11], Stefano Levorato[1], Jechiel Lichtenstadt[28], Kun Liu[29], Ming X. Liu[29], Michael Lupberger[10], Frank Maas[24,26], Angelo Maggiora[3], Gerhard Mallot[6], Andrii Maltsev[2], Lorenzo Marcellino[3,4], Anna Martin[1,14], Janusz Marzec[16], Nicolo Masi[30], Jan Matousek[11], Pablo Antonio Mayer[6], Ballina Escobar Maynor[1,18], Giovanni Mazza[3,4], Matej Michalek[7], Miha Mihovilovic[35], Andrea Moretti[1],

Shania Müller[10], Konstantin Münning[10], Maria Naeem[25], Josef Novy[7], Francesco Nozzoli[21], Alberto Oliva[30], Jan Orsl[7], Michael Ostrick[26], Daniele Panzieri[3,31], Bakur Parsamyan[3], Jan Paschek[10], Grzegorz Pastuszak[16], Stephan Paul[23], Henri Pekeler[10], Christophe Pires[5], Vladimir Polyakov[2], Thomas Pöschl[32], Patrizio Pucci[11], Catarina Quintans[27], Francesco Rossi[20,21], Andrzej Rychter[16], Andrzej Sandacz[27], Sabyasachi Sarkar[19], Giulio Sbrizzai[1], Hartmut Schmieden[33], Tim Schüttler[10], Björn Seitz[34], Alexandr Selyunin[2], Serafim Seryubin[2], Simon Sirca[35], Daria Soboleva[7], David B. Spülbeck[10], Marcin Stolarski[27], Jakub Tatarik[11], Susanna Tessaro[1], Fulvio Tessarotto[1], Annika Thiel[15], Robin S. Tietgen[26], Jan Tomsa[11], Flavio Tosello[3], Simone Trombetta[3,4], Benjamin Moritz Veit[26], João Veloso[8], Jelena Vesic[35], Miroslav Virius[7], Richard Wheadon[3,4], Klemen Zagar[35], Samuel Zahorec[7], Krzysztof Zaremba[16], Marcin Ziembicki[16], and Paolo Zuccon[20,21] — [1]Trieste Section of INFN, 34127 Trieste, Italy — [2]Affiliated with an international laboratory covered by a cooperation agreement with CERN — [3]Torino Section of INFN, 10125 Torino, Italy — [4]University of Torino, Dip. of Physics, 10125 Torino, Italy — [5]LIP Lisbon — [6]Albert-Ludwigs-Universität, Physikalisches Institut, Freiburg — [7]Czech Technical University, Prague — [8]University of Aveiro — [9]University of Warsaw — [10]HISKP, Universität Bonn — [11]Charles University, Prague — [12]University of Cordoba — [13]CFNS Stony Brook University — [14]University of Trieste, Dept. of Physics, 34127 Trieste, Italy — [15]University of Giessen — [16]Warsaw University of Technology — [17]University of Virginia — [18]Abdus Salam ICTP, 34151 Trieste, Italy — [19]Matrivani Institute of Experimental Research & Education — [20]Trento University — [21]INFN TIFPA — [22]Yamagata University — [23]Technical University of Munich — [24]Helmholtz Institute Mainz — [25]University of Tartu, Institute of Physics — [26]Universität Mainz — [27]NCBJ Warsaw — [28]Tel Aviv University — [29]LANL Los Alamos — [30]INFN Bologna — [31]University of Piemonte Orientale, Dept. of Science and Innovative Technology, 15121 Alessandria, Italy — [32]CERN — [33]Physikalisches Institut, Universität Bonn — [34]University of Glasgow — [35]Jozef Stefan Institute, University of Ljubljana, 1000 Ljubljana, Slovenia

Coll 5: AMS-100 at RWTH Aachen-Collaboration

Christian von Byern[1], Stefan Schael[1], Thorsten Siedenburg[1], Daniel Louis[1], Irfan Özen[1], Michael Wlochal[1], Dominik Pridöhl[1,2], Ben Rüsse[1,2], and Myrto Theodorou[1] — [1]I. Physics Institute B, RWTH Aachen — [2]Institute of Structural Mechanics and Lightweigth Design, RWTH Aachen

Coll 6: ATLANTIS-Collaboration

Bernhard Maass[1,2], Wouter Ryssens[3,4], Kristian König[2,5], Michael Bender[6], Daniel P. Burdette[1], Jason Clark[1], Adam Dockery[7,8], Guilherme Grams[3], Max Horst[2], Phillip Imgram[2], Kei Minamisono[7,8], Patrick Müller[2], Peter Müller[1], Wilfried Nörtershäuser[2,5], Skyy V. Pineda[7,9], Simon Rausch[2], Laura Renth[2], Brooke J. Rickey[7,8], Daniel Santiago-Gonzalez[1], Guy Savard[1], Felix Sommer[2], and Adrian A. Valverde[1] — [1]Physics Division, Argonne National Laboratory, Lemont, IL, USA — [2]Institut für Kernphysik, TU Darmstadt, Darmstadt, Germany — [3]Institut d'Astronomie et d'Astrophysique, Universite libre de Bruxelles, Brussels, Belgium — [4]Brussels Laboratory of the Universe - BLU-ULB, Brussels, Belgium — [5]Helmholtz Research Academy Hesse for FAIR, Darmstadt, Germany — [6]Institut de Physique des 2 Infinis, Universite Claude Bernard Lyon 1, Villeurbanne, France — [7]Facility for Rare Isotope Beams, Michigan State University, East Lansing, USA — [8]Department of Physics and Astronomy, Michigan State University, East Lansing, USA — [9]Department of Chemistry, Michigan State University, East Lansing, USA

Coll 7: CBELSA/TAPS-Collaboration

Farah Afzal[2], Reinhard Beck[3], Philipp Bielefeldt[3], Kai-Thomas Brinkmann[7], Nikolai Borisov[5], Volker Crede[9], Sebastian Ciupka[3], Hartmut Dutz[4], Daniel Elsner[4], Andrei Fedorov[5], Frank Frommberger[4], Simon Gardner[6], Stefan Goertz[4], Ivan Gorodnov[5], Marcus Grüner[3], Christian Hammann[3], Jan Hartmann[3], Thomas Held[2], Wolfgang Hillert[4], Christian Honisch[3], Nicolas Jermann[1], Tom Jude[4], Florian Kalischewski[3], Bernhard Ketzer[3], Friedrich Klein[4], Nicolas Kolanus[3], Franz Ludwig Krämer[3], Philipp Krönert[3], Bernd Krusche[1], Michael Lang[3], A. B. Lazarev[5], Kenneth Livingston[6], Philipp Mahlberg[3], Werner Meyer[2], Johannes Müllers[3], A. Neganov[5], Kirill Nikonov[3], Jean Noël[3], Michael Ostrick[8], Benedikt Otto[3], Dennis Proft[4], Gerhard Reicherz[2], Nadia Reinartz[2], Leoniedas Reschke[7], Lisa Richter[7], Stefan Runkel[4], Ben Salisbury[3], Andrei Sarantsev[3], Dimitri Schaab[3], Christoph Schmidt[3], Hartmut Schmieden[4], Jan Schultes[3], Tobias Seifen[3], Matthias Steinke[2], Nils Stausberg[3], Florian Taubert[3], Annika Thiel[7], Ulrike Thoma[3], Andreas Thomas[8], Georg Urff[3], Yuri Usov[5], Harald van Pee[3], Christoph Wendel[3], Ulrich Wiedner[2], Yannick Wunderlich[3], and Hans-Georg Zaunick[7] — [1]Institut f\"{u}r Physik, Klingelbergstra{\ss}e 82, CH-4056 Basel — [2]Institut f\"{u}r Experimentalphysik, Universit\"{a}tsstra{\ss}e 150, D-44780 Bochum — [3]Helmholtz-Institut f\"{u}r Strahlen- und Kernphysik, Nussallee 14-16, D-53115 Bonn — [4]Physikalisches Institut, Nussallee 12, D-53115 Bonn — [5]Joint Institute for Nuclear Research, Dubna, Russia — [6]SUPA School of Physics and Astronomy, University of Glasgow, G12 8QQ, United Kingdom — [7]II. Physikalisches Institut, Heinrich-Buff-Ring 16, D-35392 Gie{\ss}en — [8]Institut f\"ur Kernphysik, University of Mainz, D-55099 Mainz — [9]Florida State University, Tallahassee, FL 32306, USA

Coll 8: CBM-Collaboration

Apar Agarwal[1], Zubayer Ahammed[1], Nazeer Ahmad[2], Luca Jonas Ahrens[3], Mohammad Al-Turany[4], Noor Alam[2], Jing An[4,5], Julio Andary[6], Anton Andronic[7], Harald Appelshäuser[6,49], Benedict Arnoldi-Meadows[6], Beatriz Artur[6], Mohd. Danish Azmi[2], Matthias Balzer[8], Arup Bandyopadhyay[1], Vlad Andrei Băsceanu[9], Jürgen Becker[8], Marten Becker[3], Artemiy Belousov[10], Alexandru Bercuci[11], Roland Berendes[7], Denis Bertini[4], Olga Bertini[4], Martin Beyer[3], Oleg Bezshyyko[12], Partha Pratim Bhaduri[1], Anju Bhasin[13], Shabir Ahmad Bhat[14], Towseef Ahmad Bhat[15], Waseem Ahmad Bhat[14], Buddhadeb Bhattacharjee[16], Abhijit Bhattacharyya[17], Nilay Kumar Bhowmik[1], Saikat Biswas[18], Thomas Blank[8], Nora Bluhme[10], Christoph Blume[6,4,49], Gianluca Boccarella[19], Daniel Bonaventura[7], Janusz Brzychczyk[20], Marius Călin[9], Jill Calvo-Lorenzo[3], Michele Caselle[8], Amlan Chakrabarti[17], Petr Chaloupka[21], Souvik Chattopadhyay[1], Subhasis Chattopadhyay[4], Hamda Cherif[6,4], Serhii Chernyshenko[22], Eoin Clerkin[23], Lady Maryann Collazo Sánchez[4,6], Máté Csanád[24], Patrick Dahm[4], Aizat Daribayeva[10], Hasan Darwish[6,50], Dipayan Das[1], Rudrapriya Das[18], Supriya Das[18], Jan de Cuveland[10], Diana-Andreea Deara[9], Harald Deppe[4], Ingo Deppner[4], Abhishek Anil Deshmukh[19], Michael Deveaux[4,6], Jonathan Diehl[3], Vasyl Dobishuk[22], Anand Kumar Dubey[1], Andrea Dubla[4], Michael Dürr[3], Radim Dvořák[21], Ilya Elizarov[4], David Emschermann[4], Jürgen Eschke[23,4], Luisa Johanna Faber[7], Cornelius Feier-Riesen[3], Hanwen Feng[25,5], Sheng-Qin Feng[26], Felix Fidorra[7], Peter Fischer[27], Holger Flemming[4], Henrik Floersheimer[28,4], Jörg Förtsch[19], Panagiota Foka[4], Ulrich Frankenfeld[4], Volker Friese[4], Ingo Fröhlich[6,4], Felix Frombach[8], Jochen Frühauf[4], Tetyana Galatyuk[28,4,49], Gautam Gangopadhyay[17], Piotr Gasik[23,4,28], Chandrasekhar Ghosh[1], Sanjay K. Ghosh[18], Damian Gil[20], Susanne Glässel[6], Frank Goldenbaum[29,4,19], Larisa Golinka-Bezshyyko[12], Sergey Gorbunov[4], Nico Greve[30], Dieter Grzonka[29,4,51], Anik Gupta[13], Sachin Gupta[29,4], David Gutiérrez Menéndez[4,6], Benedikt Gutsche[6], Dong Han[31], Junyi Han[25,5], Xionghong He[32], Norbert Heine[7], Norbert Herrmann[25], Helena Hesounová[21], Johann M. Heuser[4], Claudia Höhne[3,4,49], Ondřej Hofman[21], Felix Hollfoth[3], Yige Huang[5,4], Dirk Hutter[10], Yixuan Jin[25,5], Alexandru Jipa[9], Igor Kadenko[12], Philipp Kähler[7], Karl-Heinz Kampert[19], Ralf Michael Kapell[4], Radoslaw Karabowicz[4], Varchaswi K.S. Kashyap[33], Krzysztof Kasiński[34], Vadym Kedych[28], Oliver Keller[23], Irakli Keshelashvili[4], M. Mohsin Khan[2], Sukyung Kim[19], Mladen Kiš[4], Ivan Kisel[10,49], Rafal Kleczek[34], Christian Klein-Bösing[7], Ralf Kliemt[29,4], Karsten Koch[4], Piotr Koczoń[4], Grzegorz Korcyl[20], Oleksii Kovalchuk[22], Grigory Kozlov[10], Yevhen Kozymka[28,4], Dmytro Kresan[4], Wilhelm Krüger[28], Michal Kruszewski[35], Oleksandr Kshyvanskyi[22], Bogumil Kubiak[35], Andrej Kugler[36], Ajay Kumar[37], Ajit Kumar[6], Lokesh Kumar[15], Volodymyr Kyva[22], Robin Lakos[10], Rafal Lalik[20], Pawel Lasko[20], Ionel Lazanu[9], Jörg Lehnert[4], Yue Hang Leung[25], Min Li[32], Shuang Li[26], Wen Li[38], Yuanjing Li[31], Yu-Tie Liang[32], Volker Lindenstruth[10,4,49], Frederic Julian Linz[4,28], Feng Liu[5], Sven Löchner[4], Pierre-Alain Loizeau[4],

Manuel Lorenz[6,4], Oleksii Lubynets[4], Xiaofeng Luo[5], Sanjay Mahajan[13], Biswajit Mallick[39], Subir Mandal[18], Yaxian Mao[5], Ana Maria Marin Garcia[4], Jochen Markert[4], Franz Alexej Matejcek[6], Tomasz Matulewicz[40], Johan Messchendorp[4], Adrian Meyer-Ahrens[7], Jan Michel[6], M. Farooq Mir[14], Dariusz Miskowiec[4], Akhil Mithran[10], Bedangadas Mohanty[33], Denise Moreira de Godoy Willems[7], Walter F.J. Müller[4], Christian Müntz[6], Marvin Nabroth[6], Ekata Nandy[1], Satya Ranjan Nayak[37], Frank Nerling[4,6,49], Simon Neuhaus[19], Frederike Nickels[4], Dachi Okropiridze[29,51], Hannes Olbring[7], Antonín Opíchal[36], Piotr Otfinowski[34], Liang-ming Pan[41], Bushra Parveen[18], Henning Pauels[7], Christian Pauly[19], Jesús Peña Rodríguez[19], Sven Peter[3], Vojtěch Petráček[21], Mariana Petriş[11], Dennis Pfeifer[19], Krzysztof Piasecki[40], Jerzy Pietraszko[4], Roman Planeta[20], Vladimir Plujko[12], Jan Pluta[42], Nikolai Podgornov[29,51], Tetiana Povar[19], Krzysztof Poźniak[35,40], Sidharth Kumar Prasad[18], Mykhailo Pugach[22], Valery Pugatch[22], Prabhat R. Pujahari[43], Axel Puntke[7], Hao Qiu[32], Laura Radulescu[11], Sibaji Raha[18], Dario Alberto Ramírez Zaldivar[4,6], Rajesh Rath[1], Rajarshi Ray[18], Andreas Redelbach[10], Alexander Reinefeld[30], Simon Patrik Reiter[3], Oana Ristea[9], James Ritman[29,4,51], Dairon Rodríguez Garces[4,6], Adrian Rodríguez Rodríguez[4], Florian Roether[6], Ryszard Romaniuk[35], Adrian Rost[28], Ankhi Roy[44], Shreya Roy[4], Esteban Rubio[25], Anar Rustamov[4], Raghunath Sahoo[44], Pradip Kumar Sahu[39], Sanjib Kumar Sahu[39], Jogender Saini[1], Piotr Salabura[20], Sumanta Samal[44], Sanjeev Singh Sambyal[13], Katia Santos Marrero[4], Karina Scharmann[3], Claudiu Schiaua[11], Florian Schintke[30], David Schledt[6], Christian Joachim Schmidt[4], Hans Rudolf Schmidt[45,4], Luca Schramm[28,4], Kerstin Schünemann[23,4], Florian-Johannes Seck[28], Thomas Sefzick[29,4,51], Ilya Selyuzhenkov[4], Patryk Semeniuk[34,6,4], Anna Senger[23], Peter Senger[23,6], Abhishek Kumar Sharma[2], Anjali Sharma[18], Anju Sharma[4,2], Pawan Kumar Sharma[1], Shusu Shi[5], Mehulkumar Shiroya[4,6], Vladimir Sidorenko[8], Frank Simon[8], Carmen Simons[4], Ajay Kumar Singh[46], Bhartendu Kumar Singh[37], Gaurav Singh[7], Omveer Singh[6,4], Ranbir Singh[33], Vikas Singhal[1], Anowar Sk[1], Dominik Smith[23], Bartosz Sobół[20], Yannick Söhngen[25], Dennis Spicker[6], Pawel Staszel[20], Tobias Stockmanns[29,51], Joachim Stroth[6,4,49], Christian Sturm[4], Pavish Subramani[19], Gnana Sindhu Subramanya[4,6], Oleksandr Suddia[4], Kai Sun[31], Xu Sun[32], Yongjie Sun[38], Zhengyang Sun[38], Robert Szczygiel[34], Eva-dhidho Taka[6], Jenny Taylor[4], Maksym Teklishyn[4], Sanchari Thakur[1], Savina Noelle Thau[3], Jens Thaufelder[4], Alberica Toia[4,6,49], Michael Traxler[4], Lechoslaw Trebacz[20], Ekaterina Trifonova[8], Anna Twarowska[35], Oddharak Tyagi[10], Iuliana-Carina Udrea[28,4], Florian Uhlig[4], Kai Lukas Unger[8], Iouri Vassiliev[4], Oleg Vasylyev[4], Robert Visinka[4], Marlon Völlinger[3], Lukas Wahmes[7], Kaiyang Wang[38], Yi Wang[31], Philipp Weidenkaff[25], Felix Weiglhofer[10], Johannes P. Wessels[7], Daniel Wielanek[42], Andrzej Wieloch[20], Peter Wintz[29,51], Marcin Wojtkowski[35], György Wolf[47], Ke-Jun Wu[26], Qiqi Wu[41], Aleksander Wyzykowski[35], Huagen Xu[29,4,51], Nu Xu[32,5,33,4], Junfeng Yang[38], Ruijia Yang[19,51], Ming Yao[38], Zhongbao Yin[5], In-Kwon Yoo[48], Wojciech Zabolotny[35,40], Hanna Paulina Zbroszczyk[42], Xiaoming Zhang[5], Xin Zhang[4,32], Ya-Peng Zhang[32], Sergei Zharko[4], Sheng Zheng[26], Daicui Zhou[5], Wenxiong Zhou[41], Yingjie Zhou[4,5], Xianglei Zhu[31], Marcin Zieliński[20], Gianna Zischka[10], Weronika Zubrzycka[34], and Peter Zumbruch[4] — [1]Variable Energy Cyclotron Centre (VECC), Kolkata, India — [2]Department of Physics, Aligarh Muslim University, Aligarh, India — [3]Justus-Liebig-Universität Giessen, Giessen, Germany — [4]GSI Helmholtzzentrum für Schwerionenforschung GmbH (GSI), Darmstadt, Germany — [5]College of Physical Science and Technology, Central China Normal University (CCNU), Wuhan, China — [6]Institut für Kernphysik, Goethe-Universität Frankfurt, Frankfurt, Germany — [7]Institut für Kernphysik, Universität Münster, Münster, Germany — [8]Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany — [9]Atomic and Nuclear Physics Department, University of Bucharest, Bucharest, Romania — [10]Frankfurt Institute for Advanced Studies, Goethe-Universität Frankfurt (FIAS), Frankfurt, Germany — [11]Horia Hulubei National Institute of Physics and Nuclear Engineering (IFIN-HH), Bucharest, Romania — [12]Department of Nuclear Physics, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine — [13]Department of Physics, University of Jammu, Jammu, India — [14]Department of Physics, University of Kashmir, Srinagar, India — [15]Department of Physics, Panjab University, Chandigarh, India — [16]Nuclear and Radiation Physics Research Laboratory, Department of Physics, Gauhati University, Guwahati, India — [17]Department of Physics and Department of Electronic Science, University of Calcutta, Kolkata, India — [18]Department of Physics, Bose Institute, Kolkata, India — [19]Fakultät für Mathematik und Naturwissenschaften, Bergische Universität Wuppertal, Wuppertal, Germany — [20]Marian Smoluchowski Institute of Physics, Jagiellonian University, Kraków, Poland — [21]Czech Technical University in Prague (CTU), Prague, Czech Republic — [22]High Energy Physics Department, Kiev Institute for Nuclear Research (KINR), Kyiv, Ukraine — [23]Facility for Antiproton and Ion Research in Europe GmbH (FAIR), Darmstadt, Germany — [24]Eötvös Loránd University (ELTE), Budapest, Hungary — [25]Physikalisches Institut, Universität Heidelberg, Heidelberg, Germany — [26]College of Science, China Three Gorges University (CTGU), Yichang, China — [27]Institut für Technische Informatik, Universität Heidelberg, Heidelberg, Germany — [28]Institut für Kernphysik, Technische Universität Darmstadt, Darmstadt, Germany — [29]Institut für Experimentalphysik I, Ruhr-Universität Bochum, Bochum, Germany — [30]Zuse Institute Berlin (ZIB), Berlin, Germany — [31]Department of Engineering Physics, Tsinghua University, Beijing, China — [32]Institute of Modern Physics, Chinese Academy of Sciences (IMP), Lanzhou, China — [33]National Institute of Science Education and Research (NISER), Bhubaneswar, India — [34]AGH University of Kraków (AGH), Kraków, Poland — [35]Institute of Electronic Systems, Warsaw University of Technology, Warsaw, Poland — [36]Nuclear Physics Institute of the Czech Academy of Sciences, Řež, Czech Republic — [37]Department of Physics, Banaras Hindu University (BHU), Varanasi, India — [38]Department of Modern Physics, University of Science & Technology of China (USTC), Hefei, China — [39]Institute of Physics, Bhubaneswar, India — [40]Faculty of Physics, University of Warsaw, Warsaw, Poland — [41]Chongqing University, Chongqing, China — [42]Faculty of Physics, Warsaw University of Technology, Warsaw, Poland — [43]Indian Institute of Technology Madras (IITM), Chennai, India — [44]Indian Institute of Technology Indore (IITI), Indore, India — [45]Physikalisches Institut, Eberhard Karls Universität Tübingen, Tübingen, Germany — [46]Indian Institute of Technology Kharagpur (IITKGP), Kharagpur, India — [47]Institute for Particle and Nuclear Physics, HUN-REN Wigner RCP, Budapest, Hungary — [48]Pusan National University (PNU), Pusan, Korea — [49]also: Helmholtz Research Academy Hesse for FAIR, Frankfurt, Germany — [50]also: Université de Strasbourg, CNRS, IPHC UMR 7178, Strasbourg, France — [51]also: Institut für Kernphysik, Forschungszentrum Jülich, Jülich, Germany

Coll 9: CBM-MVD-Collaboration

Ali-Murteza Altingun[2], Julio Andary[1], Benedict Arnoldi-Meadows[1], Jerome Baudot[2], Gregory Bertolone[2], Auguste Besson[2], Norbert Bialas[1], Christopher Braun[1], Roma Bugiel[2], Gilles Claus[2], Claude Colledani[2], Hasan Darwish[1,2,3], Michael Deveaux[1,3,6], Andrei Dorokhov[2], Guy Dozière[2], Ziad El Bitar[2], Ingo Fröhlich[1], Mathieu Goffe[2], Benedikt Gutsche[1], Abdelkader Himmi[2], Christine C. Hu-Guo[2], Kimmo Jaaskelainen[2], Ajit Kumar[1], Franz Matejcek[1], Jan Michel[1], Frederic Morel[2], Christian Müntz[1], Hung Pham[2], Christian Joachim Schmidt[3], Stefan Schreiber[1], Matthieu Specht[2], Joachim Stroth[1,3,4], Eva-dhidho Taka[1], Isabelle Valin[2], Yüe Zhao[2], and Marc Winter[5] — [1]Goethe University Frankfurt am Main, Germany. — [2]Université de Strasbourg, CNRS, IPHC UMR 7178, Strasbourg, France. — [3]GSI Helmholtzzentrum für Schwerionenforschung GmbH, Germany — [4]Helmholtz Forschungsakademie Hessen für FAIR, Germany. — [5]IJCLab, UMR9012 – CNRS / Université Paris-Saclay / Université de Paris, France. — [6]Facility for Antiproton and Ion Research in Europe GmbH, Germany

Coll 10: CONUS-Collaboration

Nicola Ackermann[1], Hannes Bonet[1], Christian Buck[1], Janina Hakenmüller[2], Gerd Heusser[1], Manfred Lindner[1], Susanne Mertens[1], Matthias Meier[1], Dario Piani[1], Thomas Rink[3], Edgar Garcia Sanchez[1], Yulai Shi[1], Herbert Strecker[1], and Julian Wendel[1] — [1]Max-Planck-Institut für Kernphysik, Heidelberg, Germany — [2]Marietta-Blau-Institut für Teilchenphysik der ÖAW, Vienna, Austria — [3]Karlsruher Institut für Technologie, Karlsruhe, Germany

Coll 11: CORSIKA8-Collaboration

Jean-Marco Alameddine[1,2], Johannes Albrecht[1,2], Anto-

nio Augusto Alves Jr.[3,4], Juan Ammerman-Yebra[5], Luisa Arrabito[6], Dominik Baack[1,2], Rui Cesista[6], Alan Coleman[7], Cosmin Deaconu[8], Hans Dembinski[1,2], Dominik Elsässer[1,2], Ralph Engel[3], Alice Faure[6], Alfredo Ferrari[3], Chloé Gaudu[9], Christian Glaser[7,1], Marvin Gottowik[3], Dieter Heck[3], Tim Huege[3,10], Karl-Heinz Kampert[9], Nikolaos Karastathis[3], Lukas Nellen[11], David Parello[12,13], Tanguy Pierog[3], Remy Prechelt[14], Maximilian Reininghaus[15], Wolfgang Rhode[1,2], Felix Riehn[1], Maximilian Sackel[1,2], Pranav Sampathkumar[3], Alexander Sandrock[9], Jan Soedingrekso[1,2], Ralf Ulrich[3], Philipp Windischhofer[8], and Baobiao Yue[9] — [1]Technische Universität Dortmund (TU), Department of Physics, Dortmund, Germany — [2]Lamarr Institute for Machine Learning and Artificial Intelligence, Dortmund, Germany — [3]Karlsruhe Institute of Technology (KIT), Institute for Astroparticle Physics (IAP), Karlsruhe, Germany — [4]University of Cincinnati, Cincinnati, OH, United States — [5]IMAPP, Radboud University Nijmegen, Nijmegen, The Netherlands — [6]Laboratoire Univers & Particules de Montpellier, CNRS & Université de Montpellier (UMR-5299), 34095 Montpellier, France — [7]Uppsala University, Department of Physics and Astronomy, Uppsala, Sweden — [8]Department of Physics, Enrico Fermi Institute, Kavli Institute for Cosmological Physics, University of Chicago, Chicago, IL 60637, USA — [9]Bergische Universität Wuppertal, Department of Physics, Wuppertal, Germany — [10]Vrije Universiteit Brussel, Astrophysical Institute, Brussels, Belgium — [11]Universidad Nacional Autónoma de México (UNAM), Instituto de Ciencias Nucleares, México, México — [12]DALI, Univ Perpignan, Perpignan, France — [13]LIRMM Univ Montpellier, CNRS, Montpellier, France — [14]University of Hawai'i at Manoa, Department of Physics and Astronomy, Honolulu, USA — [15]Independent researcher

Coll 12: COSINUS-Collaboration

G. Angloher[1], M.R. Bharadwaj[1], A. Böhmer[2,3], M. Cababie[2,3], I. Colantoni[4,6], I. Daphne[5,6], N. Di Marco[5,7], C. Dittmar[1], F. Ferella[7], F. Ferroni[5,6], S. Fichtinger[2], A. Filipponi[7,8], T. Frank[1], M. Friedl[2], D. Fuchs[2,3], M. Gapp[1], L. Gai[9], M. Heikinheimo[10], M.N. Hughes[11], K. Huitu[10], M. Kellermann[2,3], M. Mancuso[1], L. Pagnanini[5,7], F. Petricca[1], S. Pirro[7], F. Pröbst[1], G. Profeta[7], A. Puiu[7], F. Reindl[2,3], K. Schäffner[1], J. Schieck[2,3], P. Schreiner[2,3], C. Schwertner[2,3], P. Settembri[7,8], K. Shera[1], M. Stahlberg[1], A. Stendhal[10], M. Stukel[11], C. Tresca[7,12], S. Yue[9], V. Zema[1,2], Y. Zhu[9], and N. Zimmermann[10] — [1]Max Planck Institute for Physics, 85748 Garching - Germany — [2]Institute for High Energy Physics of the Austrian Academy of Sciences, 1050 Vienna - Austria — [3]Atominstitut, Vienna University of Technology, 1020 Vienna - Austria — [4]National Research Council, Institute of Nanotechnology, 00185 Rome - Italy — [5]Gran Sasso Science Institute, 67100 L' Aquila - Italy — [6]INFN - Rome Section, 00185 Rome - Italy — [7]INFN - Gran Sasso National Laboratories, 67100 Assergi - Italy — [8]Department of Physical and Chemical Sciences, University of L'Aquila, 67100 L'Aquila - Italy — [9]State Key Laboratory of Functional Crystals and Devices, Shanghai Institute of Ceramics, Chinese Academy of Sciences, 201899 Shanghai - China — [10]Helsinki Institute of Physics, 00014 University of Helsinki - Finland — [11]SNOLAB, P3Y 1N2 Lively - Canada — [12]CNR-SPIN c/o Department of Physical and Chemical Sciences, University of L'Aquila, 67100 L'Aquila - Italy

Coll 13: DOGMA-Collaboration

Henning Heggen[1], Maximilian von Bülow[1], Michael Wiebusch[1], Jochen Frühauf[1], Manuel Reyes[1], Sergey Linev[1], Michael Traxler[1], and Michael Böhmer[2] — [1]GSI Helmholtzzentrum für Schwerionenforschung GmbH — [2]Technische Universität München

Coll 14: Double Alpha at FRS Ion Catcher-Collaboration

Daler Amanbayev[1,2,3], Samuel Ayet San Andrés[4], Sönke Beck[2], Julian Bergmann[1], Thomas Davinson[5], Timo Dickel[1,2], Zhuang Ge[2], Hans Geissel[2], Oscar Hall[5], Louis Heitz[6,7], Christine Hornung[2], Nasser Kalantar-Nayestanaki[8], Elias Khan[7], Gabriella Kripkó-Koncz[1,3,5], Israel Mardor[9,10], David J. Morrissey[11], Meetika Narang[2], Wolfgang Plass[1,2], Ilkka Pohjalainen[12], Moritz Pascal Reiter[5], Christoph Scheidenberger[1,2,3], Makar Simonov[1,3], Suraj Kumar Singh[2], Alexandru State[13], Christophe Theisen[6], Nazarena Tortorelli[2,14], Marine Vandebrouck[6], László Varga[2,5], Philip J. Woods[5], Heinrich Wilsenach[15], Jiajun Yu[2], and Jianwei Zhao[2] — [1]Justus-Liebig-Universität Gießen, Gießen, Germany — [2]GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany — [3]Helmholtz Research Academy Hesse for FAIR (HFHF), GSI Helmholtz Center for Heavy Ion Research, Gießen, Germany — [4]University Valencia, Valencia, Spain — [5]University of Edinburgh, Edinburgh, United Kingdom — [6]Irfu, CEA, Université Paris-Saclay, Gif-sur-Yvette, France — [7]IJCLab, Université Paris-Saclay, CNRS/IN2P3, Orsay Cedex, France — [8]Nuclear Energy Group, ESRIG, University of Groningen, Groningen, Netherlands — [9]Tel Aviv University, Tel Aviv, Israel — [10]Soreq Nuclear Research Center, Yavne, Israel — [11]Michigan State University, East Lansing, Michigan, USA — [12]University of Jyväskylä, Jyväskylä, Finland — [13]ELI-NP, Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering, Magurele, Romania — [14]Ludwig-Maximilians-Universität München, Germany — [15]Racah Institute of Physics, The Hebrew University of Jerusalem, Jerusalem, Israel

Coll 15: E0018 Experiment-Collaboration

Carlo Forconi[1], Ruijiu Chen[1,3], David Freire Fernandez[2], Wolfram Korten[4], Yury Litvinov[1,2], Esther Babette Menz[1,2], Shahab Sanjari[1], Ragandeep Singh Sidhu[5], Usama Ahmed[6], Fatma Cagla Akinci[7], Michael Armstrong[2], Jelena Bardak[1,8], Camille Berthelot[9], Jeroen Bormans[1,6], Carsten Brandau[1], Sofia Florence Dellmann[10], Iris Dillmann[11], Dmytriiev Dmytro[1], Oliver Forstner[1,12], Jan Glorius[1], Magdalena Gorska-Ott[1], Alexandre Gumberidze[1], Sakumi Harayama[13,14], Regina Hess[1], Nikolas James Hubbard[1], Katharina Ide[6], Beatriz Jurado[9], Desislava Kalaydjieva[15], Kanika Kanika[16], Yuma Kikuchi[13], Filip Kondev[17], Gregor Kosir[1], Johan Emil Linnestad Larrson[1,6], Hongfu Li[3], Sergey Litvinov[1], Bernd Lorentz[1], Hannes Mayr[6], Wang Meng[3,18], Zac Nunns[5], Tetsuya Ohnishi[13], Nikos Petridis[1], Zsolt Podolyak[5], Joseph Ronald[1], Rodolfo Sanchez[1], Markus Steck[1], Thomas Stöhlker[1], Kazuki Takiura[14], Jelena Vesic[1], Philip Walker[5], Qian Wang[3,18], Helmut Weick[1], Michael Weinert[2], Boguslaw Wloch[7], Yuanming Xing[3,18], Xing Xu[3,18], Takayuki Yamaguchi[14], Yoshitaka Yamaguchi[13], Asaho Yano[19], Xinliang Yan[3,18], Andreas Zilges[2,5], Min Zhang[3,18], YuHu Zhang[3,18], and Xu Zhou[3,18] — [1]GSI Darmstadt, Germany — [2]University of Cologne, Institute for Nuclear Physics, Germany — [3]Institute of Modern Physics, China — [4]CEA Paris-Saclay — [5]University of Surrey — [6]TU Darmstadt — [7]University of Instanbul — [8]University of Novi Sad — [9]University of Bordeaux — [10]Goethe-Universität Frankfurt(UFfm-IAP) — [11]Tri-University Meson Facility (TRIUMF) — [12]University of Jena — [13]RIKEN — [14]Saitama University — [15]University of Guelph — [16]Imperial College London — [17]Argonne National Laboratory — [18]Chinese Academy of Sciences — [19]University of Tsukaba

Coll 16: GlueX-Collaboration

Farah Afzal[1], Ilia Belov[1], Miriam Fritsch[1], Klaus Götzen[4], Niklas Herrmann[1], Peter Hurck[2], Frank Nerling[4,5], James Ritman[1,4], Susan Schadmand[4], and Annika Thiel[3] — [1]Ruhr University Bochum, Bochum, Germany — [2]University of Bonn, Bonn, Germany — [3]University of Gießen — [4]GSI Helmholtz Centre for Heavy Ion research, Darmstadt, Germany — [5]Helmholtz Research Academy Hesse for FAIR, Campus Frankfurt, GSI Darmstadt & GU Frankfurt, Germany

Coll 17: HADES-Collaboration

Jörn Adamczewski-Musch[6], Marten Becker[11], Alberto Blanco[2], Christoph Blume[9,6], Malin Bohman[16], Izabela Ciepał[4], Michael Durr[11], Laura Fabbietti[10], Fritzemeier Felix[9], Miroslaw Firlej[3], Tomasz Fiutowski[3], Henrik Floersheimer[7], Ahmed Foda[6], Jörg Förtsch[19], Paulo Fonte[2], Jürgen Friese[10], Ingo Fröhlich[9], Tetyana Galatyuk[7,6], Roman Gernhäuser[10], Mateusz Grunwald[18], Dieter Grzonka[1,6], Malgorzata Gumberidze[6], Szymon Harabasz[7,14], Thorsten Heinz[6], Claudia Höhne[11,6], Romain Holzmann[6], Marek Idzik[3], Burkhard Kämpfer[8], Karl-Heinz Kampert[19], Behruz Kardan[9], Sukyung Kim[19], Valentin Kladov[1,6], Anna Kodym[18], Marvin Kohls[9], Pavel Kohout[13], Jedrzej Kolas[18], Grzegorz Korcyl[5], Georgy Kornakov[18], Yevhen Kozymka[7], Luboš Krupa[13], Andrej Kugler[15], Rafal Lalik[5], Semen Lebedev[6], Theodoros Leontiou[12], Sergey Linev[6], Frederic Linz[6], Luís Lopes[2], Manuel Lorenz[9,6], Pawel Marciniewski[16], Jochen Markert[6], Sacha Mehat[14], Kyrylo Merkotan[15], Johan Messchendorp[6], Volker Metag[11], Jan Michel[9], Jakub Moron[3], Jehad Mousa[12], Christian Müntz[9], Marvin Nabroth[9], Antonín Opíchal[15,13], Jan Orliński[17], Michael Papenbrock[16], Yannis Parpottas[12],

Snehankit Pattnaik[6,1], Christian Pauly[19], Diana Pawlowska-Szymanska[18], Vladimir Pechenov[6], Olga Pechenova[6], Dennis Pfeifer[19], Joanna Phan[17], Krzysztof Piasecki[17], Jerzy Pietraszko[6], Michal Predota[18], Krzysztof Prościński[5], Witold Przygoda[5], Béatrice Ramstein[14], Jana Tamara Rieger[16], James Ritman[6,1], Anar Rustamov[6], Saket Kumar Sahu[1,6], Piotr Salabura[5], Joao Saraiva[2], Susan Schadmand[6], Karina Scharmann[11], Niklas Schild[7], Erwin Schwab[6], Karin Schonning[16], Florian Seck[7], Ilya Selyuzhenkov[6], Jerzy Smyrski[5], Simon Spies[6], Athira Sreejith[19], Adam Strach[5], Herbert Ströbele[9], Joachim Stroth[9,6], Konrad Sumara[5], Ondřej Svoboda[15], Krzysztof Swientek[3], Chris Noel Takatsch[11], Jenny Taylor[6], Pavel Tlusty[15], Michael Traxler[6], Szymon Treliński[4], Iuliana-Carina Udrea[7,6], Felix Ulrich-Pur[6], Jessica Vogel[7], Vladimir Wagner[15], Adrian Amatus Weber[11], Christian Wendisch[6], Peter Wintz[1], Maciej Witkowski[18], Anna Władyszewska[5], Hanna Zbroszczyk[18], Marcin Zieliński[5], and Peter Zumbruch[6] — [1]Ruhr-Universität Bochum, 44801 Bochum, Germany — [2]LIP-Laboratório de Instrumentação e Física Experimental de Partículas, 3004-516 Coimbra, Portugal — [3]AGH University of Krakow, Faculty of Physics and Applied Computer Science, 30-059 Krakow, Poland — [4]Institute of Nuclear Physics, Polish Academy of Sciences, 31342 Kraków, Poland — [5]Smoluchowski Institute of Physics, Jagiellonian University of Cracow, 30-059 Kraków, Poland — [6]GSI Helmholtzzentrum für Schwerionenforschung GmbH, 64291 Darmstadt, Germany — [7]Institut für Kernphysik, Technische Universität Darmstadt, 64289 Darmstadt, Germany — [8]Institut für Strahlenphysik, Helmholtz-Zentrum Dresden-Rossendorf, 01314 Dresden, Germany — [9]Institut für Kernphysik, Goethe-Universität, 60438 Frankfurt, Germany — [10]Physik Department E62, Technische Universität München, 85748 Garching, Germany — [11]II.Physikalisches Institut, Justus Liebig Universität Giessen, 35392 Giessen, Germany — [12]Department of Mechanical Engineering, Frederick University, 1036 Nicosia, Cyprus — [13]Faculty of Science, Palacký University Olomouc, 779 00 Olomouc, Czech Republic — [14]Laboratoire de Physique des 2 infinis Irene Joliot-Curie, Universite Paris-Saclay, CNRS-IN2P3, F-91405 Orsay, France — [15]Nuclear Physics Institute, The Czech Academy of Sciences, 25068 Rez, Czech Republic — [16]Institutionen for fysik och astronomi, Uppsala universitet, 75120 Uppsala, Sweden — [17]Uniwersytet Warszawski, Instytut Fizyki Doświadczalnej, 02-093 Warszawa, Poland — [18]Warsaw University of Technology, Faculty of Physics, 00-662 Warsaw, Poland — [19]Bergische Universität Wuppertal, 42119 Wuppertal, Germany

Coll 18: HVMAPS HD-Collaboration

André Schöning, Heiko Augustin, Benjamin Weinläder, Lukas Mandok, Effrosyni Zachou, and Alexander Schmidt — Physikalisches Institut Heidelberg

Coll 19: IS 656-Collaboration

Rainer Abels[1], Dania Al Daas[1], Andrey Blazhev[1], Alina Didik[1], Felix Dunkel[1], Arwin Esmaylzadeh[1], Christoph Fransen[1], Herbert Hess[1,2], Carina Heymer[1], Jan Jolie[1], Hannah Kleis[1], Casper-David Lakenbrink[1], Mario Ley[1], Peter Reiter[1], Stefan Thiel[1], Nigel Warr[1,3], Michael Weinert[1], Frank Browne[4], Carlotta Porzio[5], Liam Gaffney[3], Ben Jones[3], Josh Curry[3], Faye Rowntree[3], Pietro Spagnoletti[3], Thorsten Kröll[6], Rob Bark[7], Sifiso Ntshangase[8], Lucky Makhathini[9], Xolisani Ngwadla[9], Siyabonga Majola[10], Simlindi Mumbwa[10], George Willmot[11], Carl Unsworth[12], Rafael Antoino Lopez[13], and Claus Müller-Gatermann[14] — [1]University of Cologne, Institute for Nuclear Physics, Germany — [2]GSI, Darmstadt, Germany — [3]University of Liverpool, UK — [4]University of Manchester, UK — [5]CERN, Switzerland — [6]Technical University of Darmstadt, Germany — [7]iThemba LABS, South Africa — [8]University of Zululand, South Africa — [9]University of the Western Cape. South Africa — [10]University of Johannesburg, South Africa — [11]University of Surrey, UK — [12]DSTFC UKRI (Daresbury), UK — [13]University of Lund, Sweden — [14]Argonne National Laboratory, Lemont, Illinois, USA

Coll 20: ISOLDE IS748-Collaboration

H. Mayr[1], G. Rainovski[2], G. Georgiev[3], I. Anastasov[2], D.L. Balabanski[4], A. Blazhev[5], F. Browne[6], M. Droste[5], L. Gaffney[7], K. Gladnishki[2], H. Hess[5], D. Hristova[2], K. E. Ide[1], H. Kleis[5], D. Kocheva[2], L. Kodinov[2], Th. Kröll[1], A. Kuşoğlu[4], S. Meyer[1], C. M. Nickel[1], N. Pietralla[1], Zs. Podolyák[8], C. Porzio[9], P. Rahkila[10,11], P. Reiter[5], M. Scheck[12], T. Stetz[1], A. E. Stuchbery[13], S. Thiel[5], C. Unsworth[14], E. Uusikylä[10,11], N. Warr[5,7], V. Werner[1], J. Wilson[15], Z. Yue[15], and R. Zidarova[1] — [1]TU Darmstadt — [2]University of Sofia, Bulgaria — [3]Université Paris-Saclay, France — [4]ELI-NP, Romania — [5]Universität zu Köln — [6]The University of Manchester, UK — [7]University of Liverpool, UK — [8]University of Surrey, UK — [9]CERN, Switzerland — [10]University of Jyväskylä, Finland — [11]University of Helsinki, Finlan — [12]University of the West of Scotland, UK — [13]The Australian National University, Australia — [14]STFC Daresbury Laboratory, UK — [15]University of York, UK

Coll 21: ISOLTRAP-Collaboration

Dinko Atanasov[1], Maroua Benhatchi[2], Klaus Blaum[3], Paul Florian Giesel[4], Arthur Jaries[3], Jonas Karthein[5], Daniel Lange[3], Yury Litvinov[6,7], David Lunney[2], Vladimir Manea[2], Lukas Nies[8], Sarah Naimi[2], Christoph Schweiger[3], Lutz Schweikhard[4], and Frank Wienholtz[9] — [1]Studiecentrum voor Kernenergie SCK-CEN, Mol, Belgium — [2]Université Paris-Saclay, CNRS/IN2P3, IJCLab, Orsay, France — [3]Max-Planck-Institut für Kernphysik, Heidelberg, Germany — [4]Universität Greifswald, Institut für Physik, Greifswald, Germany — [5]Texas A&M University, College Station, TX, USA — [6]GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany — [7]Universität zu Köln, Institut für Kernphysik, Köln, Germany — [8]European Organization for Nuclear Research (CERN), Geneva, Switzerland — [9]Technische Universität Darmstadt, Darmstadt, Germany

Coll 22: JetRIS-Collaboration

Premaditya Chhetri[1], Dieter Ackermann[2], Sebastian Berndt[1], Michael Block[1,3,4], Alexandre Brizzard[2], Arno Claessens[5], Christoph E. Düllmann[1,3,4], Julia Even[6], Rafael Ferrer[5], Sarina Geldhof[2], Francesca Giacoppo[3], Briain Hartigen[1,6], Raphael Hasse[1], Fritz P. Hessberger[3], Harshith Babu[5], Tom Kieck[3,4], Peter Kunz[7], Mustapha Laatiaoui[2], Nathalie Lecesne[2], Andres Lopez[2], Vladimir Manea[8], Valentin Marchant[2], Elodie Morin[8], Danny Münzberg[1,3,5], Thorben Niemeyer[1], Sebastian Raeder[3,4], Antoine de Roubin[9], Herve Savajol[2], Matou Stemmler[1], Dominik Studer[3,4], Kenneth Van Beek[3,10], Tim van de Vandel[6], Piet Van Duppen[5], Thomas Walther[10], Jessica Warbinek[11], Klaus Wendt[1], Jana Weyrich[1,3,5], and Alexander Yakushev[4] — [1]JGU, Mainz, Germany — [2]GANIL, Caen, France — [3]GSI, Darmstadt, Germany — [4]HIM, Mainz, Germany — [5]KU Leuven, Leuven, Belgium — [6]University of Groningen, Groningen, Netherlands — [7]TRIUMF, Vancouver, Canada — [8]IJCLab, Orsay, France — [9]LPC Caen, Caen, France — [10]TU Darmstadt, Darmstadt, Germany — [11]CERN, Geneva, Switzerland

Coll 23: KATRIN-Collaboration

Dominic Hinz — Karlsruhe Institute of Technology (KIT), Karlsruhe

Coll 24: KM3NET-ERLANGEN-Collaboration

Frederik Andersen, Alba Domi, Thomas Eberl, Tamas Gal, Nicole Geisselbrecht, Kay Graf, Steffen Hallmann, Lukas Hennig, Oliver Janik, Oleg Kalekin, Uli Katz, Claudio Kopper, Robert Lahmann, Mays Massarwa, Anke Mosbrugger, Shivani Padma Mohan, Robert Petri, Rodrigo Gracia Ruiz, Evi Sakkou, Jutta Schnabel, Johannes Schumann, and Sebastian Weissbrod — Erlangen Centre for Astroparticle Physics (ECAP), Friedrich- Alexander-Universität Erlangen-Nürnberg, Nikolaus-Fiebiger-Str. 2, 91058 Erlangen, Germany

Coll 25: Lohengrin-Collaboration

Philip Bechtle[1], Christian Bespin[1], Dominique Breton[2], Cedric Breuning[1], Carlos Orero Canet[4], Klaus Desch[1], Herbi Dreiner[1], Oliver Freyermuth[1], Rhorry Gauld[1,3], Markus Gruber[1], César Blanch Gutiérrez[4], Hazem Hajjar[1], Matthias Hamer[1], Jan-Eric Heinrichs[1], Adrian Irles[4], Jochen Kaminski[1], Laney Klipphahn[1], Hans Krüger[1], Michael Lupberger[1], Jihane Maalmi[2], Roman Pöschl[2], Dennis Proft[1], Leonie Richarz[1,6], Tobias Schiffer[1], Patrick Schwäbig[1], Martin Schürmann[1], and Dirk Zerwas[5] — [1]Physikalisches Institut, Rheinische Friedrich-Wilhelms-Universität Bonn, Nussallee 12, 53115 Bonn, NRW Germany — [2]IJCLab Orsaz, CNRS/IN2P3, 15 rue Georges Clemenceau, Orsay, 91405, France — [3]Werner-Heisenberg-Institut, Max-Planck-Institut für Physik (MPP), Boltzmannstraße 8, Garching, 85748, Bavaria, Germany — [4]IFIC, CSIC and Universitat de Valencia, Carrer del Catedr*atic Jose Beltran Martinez 2, Paterna, 46980, Spain — [5]DMLab, Deutsches Elektronen-Synchrotron DESY,

CNRS IN2P3, Hamburg, Germany — [6]Department of Materials Science and Engineering, NTNU Norwegian University of Science and Technology, Sem Saelands vei 12, Trondheim, 7034, Norway

Coll 26: MADMAX-Collaboration

Harsh Aggarwal[1], Alan Aliyali[1], Juan Arcila Maldonado[2], Bernardo Ary dos Santos Garcia[3], Sebastian Baltschun[3], Dominik Bergermann[3], Stéphan Beurthey[4], HeeSu Byon[2], Allen Caldwell[2], Giulio Cappelli[5], Vihay Dabhi[4], Cristinel Diaconu[4], Johannes Diehl[2], Katharine Dixon[4], Babette Döbrich[2], Gia Dvali[2], Jacob Egge[6], Jean-Pierre Ernenwein[4], Kin Chung Fong[7], Erika Garutti[1], Giacomo Giannetti[2], Christopher Gooch[2], Stefan Heyminck[8], Thibaut Houdy[9], Fabrice Hubaut[4], Johannes Icke[3], Anton Ivanov[2], Mahnoor Jalal[2], Josef Jochum[10], Pierre Karst[4], Alireza Kazemipour[2], Yoann Kermaïdic[9], David Kittlinger[2], Stefan Knirck[11], Michael Kramer[8], Dagmar Kreikemeyer-Lorenzo[2], Christoph Krieger[1], David Leppla-Weber[6], Xiang Liu[2], Axel Lindner[6], Béla Majorovits[2], Akira Miyazaki[9], Georg Obermüller[2], Erdem Öz[3], Barthel Philipps[3], Pascal Pralavorio[4], Georg Raffelt[2], Javier Redondo[12], Andreas Ringwald[6], Nicolas Roch[5], Samuel Roset[4], Jörn Schaffran[6], Leonie Scheufens[3], Alexander Schmidt[3], Alexander Sedlak[2], Andrew Sonnenschein[13], Lea Stankewitz[1], Frank Steffen[2], Christian Strandhagen[10], Igor Usherov[10], Haotian Wang[3], Gundolf Wieching[8], Umashi Wijeratne-Fernando[2], Eugenie Zaitseva[2], and Max Zimmermann[3] — [1]Universität Hamburg — [2]MPI für Physik, München — [3]RWTH Aachen — [4]CPPM, Marseille, Frankreich — [5]Institut NEEL, CNRF, Grenoble, Frankreich — [6]DESY Hamburg — [7]Northeastern University, Boston, MA, USA — [8]MPI für Radioastronomie, Bonn — [9]Université Paris-Saclay, CNRS/IN2P3, IJCLab, Frankreich — [10]Eberhard-Karls-Universität Tübingen — [11]Harvard University, Cambridge, MA, USA — [12]Universidad de Zaragoza, Spanien — [13]Fermi National Accelerator Laboratory, USA

Coll 27: MAGIX-Collaboration

Patrick Achenbach[1,2], Markus Ball[4], Jan Bernauer[9,10], Maik Biroth[1], Lucie Bister[1], Nicolas Böttcher[1], Philipp Brand[6], Mirco Christmann[1,2], Ethan Cline[9], Liridon Deda[6], Achim Denig[1,2,3], Luca Doria[1,3], Peter Drexler[1], Anselm Esser[1], Luisa Fahrian[1], Sara Fechner[1], Ivica Friscic[14], Jost Froning[6], Alen Gajer[1], Pepe Gülker[1,15], Nils Hesse[1], Matthias Hoek[1,2], Hannah Kessler[1], Alfons Khoukaz[6], Pascal Klag[1], Konrad Kleineidam[1], Michael Kohl[11], Tim Kolar[7], Michail Kontogoulas[1], Tyler Kutz[1,3], Matteo Lauss[1,2], Maximilian Littich[1], Michael Lupberger[5], David Markus[1,15], Harald Merkel[1,3], Stefan Merkel[1], Miha Mihovilovič[7,8], Richard Milner[12], Jonas Pätschke[1], Saskia Plura[1,3], Lukas Reitz[1], Sören Schlimme[1], Daniel Schmitt[1], Concettina Sfienti[1,2,3], Simon Širca[7,8], Daniel Steger[1,15], Sebastian Stengel[1], Elzbieta Stephan[13], Christian Stoss[1,15], Philipp Teichner[1], Sophia Vestrick[6], Michael Weide[6], Andrzej Wilczek[13], and Luca Wilhelm[1] — [1]Institut für Kernphysik, Johannes Gutenberg-Universität, D-55099 Mainz, Germany — [2]Helmholtz Institute Mainz, GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Johannes Gutenberg-Universität, D-55099 Mainz, Germany — [3]PRISMA$^+$ Cluster of Excellence, Johannes Gutenberg-Universität, D-55099 Mainz, Germany — [4]Helmholtz-Institut für Strahlen- und Kernphysik, Rheinische Friedrich-Wilhelms-Universität, D-53115 Bonn, Germany — [5]Physikalisches Institut, Rheinische Friedrich-Wilhelms-Universität, D-53115 Bonn, Germany — [6]Institut für Kernphysik, Westfälische Wilhelms-Universität, D-48149 Münster, Germany — [7]Jožef Stefan Institute, SI-1000 Ljubljana, Slovenia — [8]Department of Physics, University of Ljubljana, SI-1000 Ljubljana, Slovenia — [9]Center for Frontiers in Nuclear Science, Department of Physics and Astronomy, Stony Brook University, New York 11794-3391, USA — [10]RIKEN BNL Research Center, Brookhaven National Laboratory, Upton, NY 11973-5000, USA — [11]Department of Physics, Hampton University, Hampton, Virginia 23668, USA — [12]Laboratory for Nuclear Science, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139, USA — [13]Institute of Physics, University of Silesia, 40-007, Katowice, Poland — [14]Department of Physics, University of Zagreb, HR-10002 Zagreb, Croatia — [15]Graduiertenkolleg Particle Detectors, Institut für Physik, Johannes Gutenberg-Universität, D-55099 Mainz, Germany

Coll 28: NitroFLASH-Collaboration

Anna Nelles[1,2], Frank Stephan[2], Matthias Gross[2], Anne Oppelt[2], Daniel Villani[1], Stefan Funk[1], Thilo Michel[1], Martin Rongen[1], Florian Beisser[1], Leonie Ullmann[1], Sven Zander[3], Oliver Stein[3], Hannes Dinter[3], Daniel Romaker[3], and Rüdiger Collatz[4] — [1]ECAP, FAU Erlangen-Nürnberg, Erlangen, Germany — [2]DESY, Zeuthen, Germany — [3]DESY, Hamburg, Germany — [4]Berthold Technologies GmbH & Co. KG, Bald Wildbad, Germany

Coll 29: NuDoubt-Collaboration

Manuel Böhles[1], Sebastian Böser[1], Madgalena Eisenhuth[1], Cloé Girard-Carillo[1], Kitzia M. Hernandez Curiel[1], Bastian Kessler[1], Kyra Mossel[1], Jonas Pätschke[2], Veronika Palušová[1], Stefan Schoppmann[3], Susanna M. Wakely[1], Alfons Weber[1], Miriam Weigand[1], Michael Wurm[1], and Dorina Zundel[1] — [1]Johannes Gutenberg-Universität Mainz, Institut für Physik, 55128 Mainz, Germany — [2]Johannes Gutenberg-Universität Mainz, Institut für Kernphysik, 55128 Mainz, Germany — [3]Johannes Gutenberg-Universität Mainz, Detektorlabor, Exzellenzcluster PRISMA$^+$, 55128 Mainz, Germany

Coll 30: P371-Collaboration

Dieter Grzonka[1,2], James Ritman[1,2,3], Thomas Sefzick[2], Huagen Xu[2], Vincent Verhoeven[3], Pawel Kulessa[4], Jerzy Smyrski[5], Marcin Zielinski[5], and Gunn Khatri[6] — [1]Institue fuer Kernphysik, Forschungszentrum Juelich — [2]GSI Helmholtzzentrum fuer Schwerionenforschung GmbH — [3]Ruhr-Universitaet Bochum, Instit fuer Experimentalphysik I — [4]Institute of Nuclear Physics, Krakow — [5]Jagiellonian Universitz, Krakow — [6]CERN

Coll 31: Pierre Auger-Collaboration

A. Abdul Halim[13], P. Abreu[67], M. Aglietta[50,49], I. Allekotte[1], K. Almeida Cheminant[75,74], R. Aloisio[42,43], J. Alvarez-Muñiz[73], A. Ambrosone[42], J. Ammerman Yebra[73], L. Anchordoqui[79], B. Andrada[7], L. Andrade Dourado[42,43], L. Apollonio[55,46], C. Aramo[47], E. Arnone[59,49], J.C. Arteaga Velázquez[63], P. Assis[67], G. Avila[11], E. Avocone[53,43], A. Bakalova[29], Y. Balibrea[11], A. Baluta[70], F. Barbato[42,43], A. Bartz Mocellin[78], J.P. Behler[10], C. Berat[91], M.E. Bertaina[59,49], M. Bianciotto[59,49], P.L. Biermann[84], V. Binet[5], K. Bismark[35,7], T. Bister[74,75], J. Biteau[33,93], J. Blazek[29], J. Blümer[37], M. Boháčová[29], D. Boncioli[53,43], C. Bonifazi[16,8], N. Borodai[65], J. Brack[89], P.G. Brichetto Orquera[7,37], A. Bueno[72], S. Buitink[15], M. Büsken[35,7], A. Bwembya[74,75], K.S. Caballero-Mora[62], S. Cabana-Freire[73], L. Caccianiga[55,46], J. Caraça-Valente[78], R. Caruso[54,44], A. Castellina[50,49], F. Catalani[18], G. Cataldi[45], L. Cazon[73], M. Cerda[10], B. Čermáková[37], A. Cermenati[42,43], K. Cerny[30], J.A. Chinellato[21], J. Chudoba[29], L. Chytka[30], R.W. Clay[13], A.C. Cobos Cerutti[6], R. Colalillo[56,47], R. Conceição[67], G. Consolati[46,51], M. Conte[52,45], F. Convenga[42,43], D. Correia dos Santos[25], P.J. Costa[67], C.E. Covault[77], M. Cristinziani[41], C.S. Cruz Sanchez[3], S. Dasso[4,2], K. Daumiller[37], B.R. Dawson[13], R.M. de Almeida[25], E.-T. de Boone[41], B. de Errico[25], J. de Jesús[7], S.J. de Jong[74,75], J.R.T. de Mello Neto[25], I. De Mitri[42,43], D. de Oliveira Franco[40], F. de Palma[52,45], V. de Souza[19], E. De Vito[52,45], A. Del Popolo[54,44], O. Deligny[31], N. Denner[29], K. Denner Syrokvas[28], L. Deval[49], A. di Matteo[49], C. Dobrigkeit[21], J.C. D'Olivo[64], L.M. Domingues Mendes[16,67], Y. Dominguez Ballesteros[27], Q. Dorosti[41], R.C. dos Anjos[24], J. Ebr[29], F. Ellwanger[37], R. Engel[35,37], I. Epicoco[52,45], M. Erdmann[38], A. Etchegoyen[7,12], C. Evoli[42,43], H. Falcke[74,76,75], G. Farrar[81], A.C. Fauth[21], T. Fehler[41], F. Feldbusch[36], A. Fernandes[67], M. Fernández Alonso[14], B. Fick[80], J.M. Figueira[7], P. Filip[35,7], A. Filipčič[71,70], T. Fitoussi[37], B. Flaggs[83], A. Franco[45], M. Freitas[67], T. Fujii[82,92], A. Fuster[7,12], C. Galea[74], B. García[6], C. Gaudu[34], P.L. Ghia[31], U. Giaccari[45], C. Glaser[39], F. Gobbi[10], F. Gollan[7], G. Golup[1], P.F. Gómez Vitale[11], J.P. Gongora[11], J.M. González[1], N. González[7], D. Góra[65], A. Gorgi[50,49], M. Gottowik[37], F. Guarino[56,47], G.P. Guedes[22], Y.C. Guerra[10], L. Gülzow[37], S. Hahn[35], P. Hamal[29], M.R. Hampel[7], P. Hansen[3], V.M. Harvey[13], A. Haungs[37], T. Hebbeker[38], C. Hojvat[87], J.R. Hörandel[74,75], P. Horvath[30], M. Hrabovský[30], T. Huege[37,15], A. Insolia[54,44], P.G. Isar[69], M. Ismaiel[74,75], P. Janecek[29], V. Jilek[29], K.-H. Kampert[34], B. Keilhauer[37], A. Khakurdikar[74], V.V. Kizakke Covilakam[7,37], H.O. Klages[37], M. Kleifges[36], J. Köhler[37],

F. Krieger[38], M. Kubatova[29], N. Kunka[36], B.L. Lago[17], N. Langner[38], N. Leal[7], M.A. Leigui de Oliveira[23], Y. Lema-Capeans[73], A. Letessier-Selvon[32], I. Lhenry-Yvon[31], L. Lopes[67], J.P. Lundquist[70], M. Mallamaci[57,44], S. Mancuso[50,49], D. Mandat[29], P. Mantsch[87], A.G. Mariazzi[3], I.C. Mariş[14], G. Marsella[57,44], D. Martello[52,45], S. Martinelli[37,7], O. Martínez Bravo[60], M.A. Martins[73], H.-J. Mathes[37], J. Matthews[90], G. Matthiae[58,48], E. Mayotte[78], S. Mayotte[78], P.O. Mazur[87], G. Medina-Tanco[64], J. Meinert[34], D. Melo[7], A. Menshikov[36], C. Merx[37], S. Michal[29], M.I. Micheletti[5], L. Miramonti[55,46], M. Mogarkar[65], S. Mollerach[1], F. Montanet[91], L. Morejon[34], K. Mulrey[74,75], R. Mussa[49], W.M. Namasaka[34], S. Negi[29], L. Nellen[64], K. Nguyen[80], G. Nicora[9], M. Niechciol[41], D. Nitz[80], D. Nosek[28], A. Novikov[83], V. Novotny[28], L. Nožka[30], A. Nucita[52,45], L.A. Núñez[27], S.E. Nuza[4], J. Ochoa[7,37], M. Olegario[19], C. Oliveira[20], L. Östman[29], M. Palatka[29], J. Pallotta[9], S. Panja[29], G. Parente[73], T. Paulsen[34], J. Pawlowsky[34], M. Pech[29], J. Pȩkala[65], R. Pelayo[61], V. Pelgrims[14], E.E. Pereira Martins[35,7], C. Pérez Bertolli[7,37], L. Perrone[52,45], S. Petrera[42,43], C. Petrucci[53], T. Pierog[37], M. Pimenta[67], B. Pont[74], M. Pourmohammad Shahvar[57,44], P. Privitera[82], C. Priyadarshi[65], M. Prouza[29], K. Pytel[66], S. Querchfeld[34], J. Rautenberg[34], D. Ravignani[7], J.V. Reginatto Akim[21], A. Reuzki[38], J. Ridky[29], F. Riehn[39,94], M. Risse[41], V. Rizi[53,43], E. Rodriguez[7,37], G. Rodriguez Fernandez[48], J. Rodriguez Rojo[11], S. Rossoni[40], M. Roth[37], E. Roulet[1], A.C. Rovero[4], A. Saftoiu[68], M. Saharan[74], F. Salamida[53,43], H. Salazar[60], G. Salina[48], P. Sampathkumar[37], N. San Martin[78], J.D. Sanabria Gomez[27], F. Sánchez[7], F.M. Sánchez Rodriguez[73], E. Santos[29], F. Sarazin[78], R. Sarmento[67], R. Sato[11], P. Savina[42,43], V. Scherini[52,45], H. Schieler[37], M. Schimassek[31], M. Schimp[34], D. Schmidt[37], O. Scholten[15,85], H. Schoorlemmer[74,75], P. Schovánek[29], F.G. Schröder[83,37], J. Schulte[38], T. Schulz[29], S.J. Sciutto[3], M. Scornavacche[7], A. Sedoski[7], S. Sehgal[34], S.U. Shivashankara[70], G. Sigl[40], K. Simkova[15,14], F. Simon[36], R. Šmída[82], S. Soares Sippert[25], P. Sommers[88], R. Squartini[10], M. Stadelmaier[37,46,55], S. Stanič[70], J. Stasielak[65], P. Stassi[91], S. Strähnz[35], M. Straub[38], T. Suomijärvi[33], A.D. Supanitsky[7], Z. Svozilikova[29], Z. Szadkowski[66], F. Tairli[13], M. Tambone[56,47], A. Tapia[26], C. Taricco[59,49], C. Timmermans[75,74], O. Tkachenko[29], P. Tobiska[29], C.J. Todero Peixoto[18], B. Tomé[67], A. Travaini[10], P. Travnicek[29], C. Trimarelli[42,43], M. Tueros[3], M. Unger[37], R. Uzeiroska[34], L. Vaclavek[30], M. Vacula[30], I. Vaiman[42,43], J.F. Valdés Galicia[64], L. Valore[56,47], P. van Dillen[74,75], E. Varela[60], V. Vašíčková[34], A. Vásquez-Ramírez[27], D. Veberič[37], I.D. Vergara Quispe[3], S. Verpoest[83], V. Verzi[48], J. Vicha[29], S. Vorobiov[70], J.B. Vuta[29], C. Watanabe[25], A.A. Watson[86], A. Weindl[37], M. Weitz[34], L. Wiencke[78], H. Wilczyński[65], B. Wundheiler[7], B. Yue[34], A. Yushkov[29], E. Zas[73], D. Zavrtanik[70,71], and M. Zavrtanik[71,70] — [1]Centro Atómico Bariloche and Instituto Balseiro (CNEA-UNCuyo-CONICET), San Carlos de Bariloche, Argentina — [2]Departamento de Física and Departamento de Ciencias de la Atmósfera y los Océanos, FCEyN, Universidad de Buenos Aires and CONICET, Buenos Aires, Argentina — [3]IFLP, Universidad Nacional de La Plata and CONICET, La Plata, Argentina — [4]Instituto de Astronomía y Física del Espacio (IAFE, CONICET-UBA), Buenos Aires, Argentina — [5]Instituto de Física de Rosario (IFIR) – CONICET/U.N.R. and Facultad de Ciencias Bioquímicas y Farmacéuticas U.N.R., Rosario, Argentina — [6]Instituto de Tecnologías en Detección y Astropartículas (CNEA, CONICET, UNSAM), and Universidad Tecnológica Nacional – Facultad Regional Mendoza (CONICET/CNEA), Mendoza, Argentina — [7]Instituto de Tecnologías en Detección y Astropartículas (CNEA, CONICET, UNSAM), Buenos Aires, Argentina — [8]International Center of Advanced Studies and Instituto de Ciencias Físicas, ECyT-UNSAM and CONICET, Campus Miguelete – San Martín, Buenos Aires, Argentina — [9]Laboratorio Atmósfera – Departamento de Investigaciones en Láseres y sus Aplicaciones – UNIDEF (CITEDEF-CONICET), Argentina — [10]Observatorio Pierre Auger, Malargüe, Argentina — [11]Observatorio Pierre Auger and Comisión Nacional de Energía Atómica, Malargüe, Argentina — [12]Universidad Tecnológica Nacional – Facultad Regional Buenos Aires, Buenos Aires, Argentina — [13]University of Adelaide, Adelaide, S.A., Australia — [14]Université Libre de Bruxelles (ULB), Brussels, Belgium — [15]Vrije Universiteit Brussels, Brussels, Belgium — [16]Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro, RJ, Brazil — [17]Centro Federal de Educação Tecnológica Celso Suckow da Fonseca, Petropolis, Brazil — [18]Universidade de São Paulo, Escola de Engenharia de Lorena, Lorena, SP, Brazil — [19]Universidade de São Paulo, Instituto de Física de São Carlos, São Carlos, SP, Brazil — [20]Universidade de São Paulo, Instituto de Física, São Paulo, SP, Brazil — [21]Universidade Estadual de Campinas (UNICAMP), IFGW, Campinas, SP, Brazil — [22]Universidade Estadual de Feira de Santana, Feira de Santana, Brazil — [23]Universidade Federal do ABC, Santo André, SP, Brazil — [24]Universidade Federal do Paraná, Setor Palotina, Palotina, Brazil — [25]Universidade Federal do Rio de Janeiro, Instituto de Física, Rio de Janeiro, RJ, Brazil — [26]Universidad de Medellín, Medellín, Colombia — [27]Universidad Industrial de Santander, Bucaramanga, Colombia — [28]Charles University, Faculty of Mathematics and Physics, Institute of Particle and Nuclear Physics, Prague, Czech Republic — [29]Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic — [30]Palacky University, Olomouc, Czech Republic — [31]CNRS/IN2P3, IJCLab, Université Paris-Saclay, Orsay, France — [32]Laboratoire de Physique Nucléaire et de Hautes Energies (LPNHE), Sorbonne Université, Université de Paris, CNRS-IN2P3, Paris, France — [33]Université Paris-Saclay, CNRS/IN2P3, IJCLab, Orsay, France — [34]Bergische Universität Wuppertal, Department of Physics, Wuppertal, Germany — [35]Karlsruhe Institute of Technology (KIT), Institute for Experimental Particle Physics, Karlsruhe, Germany — [36]Karlsruhe Institute of Technology (KIT), Institut für Prozessdatenverarbeitung und Elektronik, Karlsruhe, Germany — [37]Karlsruhe Institute of Technology (KIT), Institute for Astroparticle Physics, Karlsruhe, Germany — [38]RWTH Aachen University, III. Physikalisches Institut A, Aachen, Germany — [39]TU Dortmund University, Department of Physics, Dortmund, Germany — [40]Universität Hamburg, II. Institut für Theoretische Physik, Hamburg, Germany — [41]Universität Siegen, Department Physik – Experimentelle Teilchenphysik, Siegen, Germany — [42]Gran Sasso Science Institute, L'Aquila, Italy — [43]INFN Laboratori Nazionali del Gran Sasso, Assergi (L'Aquila), Italy — [44]INFN, Sezione di Catania, Catania, Italy — [45]INFN, Sezione di Lecce, Lecce, Italy — [46]INFN, Sezione di Milano, Milano, Italy — [47]INFN, Sezione di Napoli, Napoli, Italy — [48]INFN, Sezione di Roma "Tor Vergata", Roma, Italy — [49]INFN, Sezione di Torino, Torino, Italy — [50]Osservatorio Astrofisico di Torino (INAF), Torino, Italy — [51]Politecnico di Milano, Dipartimento di Scienze e Tecnologie Aerospaziali , Milano, Italy — [52]Università del Salento, Dipartimento di Matematica e Fisica "E. De Giorgi", Lecce, Italy — [53]Università dell'Aquila, Dipartimento di Scienze Fisiche e Chimiche, L'Aquila, Italy — [54]Università di Catania, Dipartimento di Fisica e Astronomia "Ettore Majorana", Catania, Italy — [55]Università di Milano, Dipartimento di Fisica, Milano, Italy — [56]Università di Napoli "Federico II", Dipartimento di Fisica "Ettore Pancini", Napoli, Italy — [57]Università di Palermo, Dipartimento di Fisica e Chimica "E. Segrè", Palermo, Italy — [58]Università di Roma "Tor Vergata", Dipartimento di Fisica, Roma, Italy — [59]Università Torino, Dipartimento di Fisica, Torino, Italy — [60]Benemérita Universidad Autónoma de Puebla, Puebla, México — [61]Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas del Instituto Politécnico Nacional (UPIITA-IPN), México, D.F., México — [62]Universidad Autónoma de Chiapas, Tuxtla Gutiérrez, Chiapas, México — [63]Universidad Michoacana de San Nicolás de Hidalgo, Morelia, Michoacán, México — [64]Universidad Nacional Autónoma de México, México, D.F., México — [65]Institute of Nuclear Physics PAN, Krakow, Poland — [66]University of Łódź, Faculty of High-Energy Astrophysics,Łódź, Poland — [67]Laboratório de Instrumentação e Física Experimental de Partículas – LIP and Instituto Superior Técnico – IST, Universidade de Lisboa – UL, Lisboa, Portugal — [68]"Horia Hulubei" National Institute for Physics and Nuclear Engineering, Bucharest-Magurele, Romania — [69]Institute of Space Science, Bucharest-Magurele, Romania — [70]Center for Astrophysics and Cosmology (CAC), University of Nova Gorica, Nova Gorica, Slovenia — [71]Experimental Particle Physics Department, J. Stefan Institute, Ljubljana, Slovenia — [72]Universidad de Granada and C.A.F.P.E., Granada, Spain — [73]Instituto Galego de Física de Altas Enerxías (IGFAE), Universidade de Santiago de Compostela, Santiago de Compostela, Spain — [74]IMAPP, Radboud University Nijmegen, Nijmegen, The Netherlands — [75]Nationaal Instituut voor Kernfysica en Hoge Energie Fysica (NIKHEF), Science Park, Amsterdam, The Netherlands — [76]Stichting Astronomisch Onderzoek in Nederland (ASTRON), Dwingeloo, The Netherlands — [77]Case Western Reserve University, Cleveland, OH, USA — [78]Colorado School of Mines, Golden, CO, USA — [79]Department of Physics and Astronomy, Lehman College, City University of New York, Bronx, NY, USA — [80]Michigan Technological University, Houghton, MI, USA — [81]New

York University, New York, NY, USA — [82]University of Chicago, Enrico Fermi Institute, Chicago, IL, USA — [83]University of Delaware, Department of Physics and Astronomy, Bartol Research Institute, Newark, DE, USA — [84]Max-Planck-Institut für Radioastronomie, Bonn, Germany — [85]also at Kapteyn Institute, University of Groningen, Groningen, The Netherlands — [86]School of Physics and Astronomy, University of Leeds, Leeds, United Kingdom — [87]Fermi National Accelerator Laboratory, Fermilab, Batavia, IL, USA — [88]Pennsylvania State University, University Park, PA, USA — [89]Colorado State University, Fort Collins, CO, USA — [90]Louisiana State University, Baton Rouge, LA, USA — [91]Université Grenoble Alpes, CNRS, Grenoble Institute of Engineering, LPSC-IN2P3, Grenoble, France — [92]now at Graduate School of Science, Osaka Metropolitan University, Osaka, Japan — [93]Institut universitaire de France (IUF), France — [94]now at Technische Universität Dortmund and Ruhr-Universität Bochum, Dortmund and Bochum, Germany

Coll 32: POSEIDON-Collaboration

Julian Palmes[1], Bernhard Maass[2], Hendrik Bodnar[1], Emily Burbach[1], Finn Köhler[1], Kristian König[1], Imke Lopp[1], Peter Müller[2], Wilfried Nörtershäuser[1], and Julien Spahn[1] — [1]Institut für Kernphysik der technischen Universität Darmstadt, Darmstadt, Germany — [2]Argonne National Laboratory, Lemont, USA

Coll 33: R3B-Collaboration

Helena May Albers[1], Tahani Almusidi[2], Hector Alvarez-Pol[3], Beatriz Amorim[4], Leyla Atar[1], Laurent Audouin[5], Thomas Aumann[6,1], Yassid Ayyad[3], Lamya Baashen[2], Martin Bajzek[1,7], Antoine Barriere[5], Saul Beceiro-Novo[8], Daniel Bemmerer[9], Jose Benlliure[10], Carlos A. Bertulani[11], Guillaume Blanchon[12], Konstanze Boretzky[1], María José García Borge[13], Marcello Borri[14], Lukas Thomas Bott[15], Isabelle Brandherm[16], Matthew Buckland[14], Christoph Caesar[1], Stefana Calinescu[17], David Calonge González[13], Enrique Casarejos[18], Wilton Catford[19], Joakim Cederkall[20], Audrey Chatillon[12], Andreea Cirstian[21], Pedro Copeto[22], Anna Corsi[23], Dolores Cortina-Gil[10], Dan Cozma[17], Edgar Cravo[24,25], Raquel Nunes Pereira Crespo[26], Enrico De Filippo[27], Alexis Diaz-Torres[19], Timo Dickel[1,7], Pieter Doornenbal[28], Meytal Duer[6], Peter Egelhof[1], Zoltan Elekes[29], Alexandru Enciu[6], Joachim Enders[6,30], Philipp Erbacher[15], Claes Fahlander[20], Ashton Falduto[6], Martina Feijoo Fontán[3], Daniel Fernandez Ruiz[13], Zsolt Fulop[29], Daniel Galaviz[22,25], Eulalia Gambera[31,27], Pablo García Gil[18,1], Piotr Gasik[32,1,6], Igor Gasparic[33], Zhuang Ge[34,1], Elena Geraci[31,27], Jürgen Gerl[1], Roman Gernhäuser[35], Jan Glorius[1], Brunilde Gnoffo[31,27], Pavel Golubev[20], Pablo González-Rusell[8,3], David González Caamaño[3], Antia Graña González[12], Valdir Guimaraes[36], Kathrin Göbel[1,15], Thomas Hackler[1], Muhsin N. Harakeh[37], Anna-Lena Hartig[6], Tanja Heftrich[15], Henning Heggen[1], Michael Heil[1], Andreas Heinz[38], Or Hen[39], Ana Henriques[40], Andrea Horvat[33], Ákos Horváth[41], Andrea Jedele[6], Desa Jelavic Malenica[33], Mrunmoy Jena[35], Tobias Jenegger[35], Håkan Torbjörn Johansson[38], Björn Jonson[38], Beatriz Jurado[42], Julian Kahlbow[43], Nasser Kalantar-Nayestanaki[37], Annesha Karmakar[1], Anna Kawecka[38], Erika Kazantseva[1], Aleksandra Kelic-Heil[1], Oleg Anatolievich Kiselev[1], Philipp Klenze[1], Karsten Koch[1], Wolfram Korten[23], Sabina Krasilovskaja[15,1], Dmytro Kresan[1], Thorsten Kröll[6,30], Eleonora Kudaibergenova[6], Harriet Kumi[8], Dorottya Kunne Sohler[29], Deniz Kurtulgil[15], Nikolaus Kurz[1], Daniel Körper[1], Marc Labiche[14], Andrea Lagni[6], Christoph Langer[44], Arnaud Le Fèvre[1], Yvonne Leifels[1], Marek Lewitowicz[45], Ivana Lihtar[33], Yuri Litvinov[1], Bettina Lommel[1], Enis Lorenz[6,1], Jerzy Lukasik[46], Zsombor Lányi[41], Alinka Lépine-Szily[36], Bastian Löher[1], Augusto Osvaldo Macchiavelli[47], Adam Maj[46], Nunzia Simona Martorana[27], Benoît Mauss[12], Pierre Morfouace[12], Nikhil Mozumdar[6], Dennis Mücher[16], Enrique Nacher[10,13], Takashi Nakamura[48], Thomas Nilsson[32,38,1], Chiara Nociforo[1], Göran Hugo Nyman[38], Alexandre Obertelli[6], Emanuele Vincenzo Pagano[49], Valerii Panin[1], Joochun Park[50], Stefanos Paschalis[4], Junchen Pei[51], Angel Perea[13], Marina Petri[4], Eli Piasetzky[52], Stephane Baptiste Pietri[1], Sara Pirrone[27], Martin Poghosyan[1], Giuseppe Politi[31,27], Lukas Ponnath[6], Petru-Mihai Potlog[21], Rinku Kumar Prajapat[1,53], Hang Qi[39], Christophe Rappold[13], Rene Reifarth[15], Fabio Risitano[27,54], Elena Rocco[1], Jose Luis Rodriguez Sanchez[8,1], Luke Rose[4], Dominic Michel Rossi[6,1], Paolo Russotto[49], Deniz Savran[1], Christoph Scheidenberger[1,7], Heiko Scheit[6], Konrad Schmidt[9,55], Haik Simon[1], Johannes Peter Simon[6], Suraj Kumar Singh[1,7], Zuzana Slavkovská[15], Olivier Sorlin[45], Alexandra Spiridon[17], Mihai Stanoiu[17], Alexandra Ionela Stefanescu[6], Ionut Catalin Stefanescu[17], Sonja Storck-Dutine[6], Laszlo Stuhl[1], Klaus Dieter Suemmerer[1], Baohua Sun[56], Owen Syrett[12], Julien Taieb[12], Junki Tanaka[28], Isao Tanihata[57,56], Ryo Taniuchi[4], Olof Tengblad[13], Pamela Teubig[22], Jens Thomae[6], Livius Trache[17], Wolfgang Trautmann[1], Marina Trimarchi[27,54], Stefan Typel[6,1], Hans Toshihide Törnqvist[38], Tomohiro Uesaka[28], Paulo Jorge Fernandes Velho[40], Matjaz Vencelj[58], Meiko Niklas Volknandt[15], Felix Wamers[1], Yanzhao Wang[16], Michael Weinert[16], Matthew Whitehead[4], Frank Wienholtz[6], Kathrin Wimmer[16,59,1], Martin Winkler[1], Manuel António Tavares Xarepe[22], Georgina Xifra Goya[3], Yanlin Ye[51], Cristina Zagami[49,31], Juan Carlos Zamora Cardona[60], Mikhail Zhukov[38], Andreas Zilges[16], Kai Zuber[55], Giacomo de Angelis[61], and Martin von Tresckow[6] — [1]GSI Helmholtzzentrum für Schwerionenforschung, Planckstraße 1, 64291, Darmstadt, Germany — [2]King Saud University, Saudi Arabia — [3]Universidade de Santiago de Compostela, Instituto Gallego de Física de Altas Energías (IGFAE), Rúa de Xoaquín Díaz de Rábago, s/n,, 15782, Santiago de Compostela, Spain — [4]University of York, School of Physics, Engineering and Technology, Heslington, YO10 5DD, York, United Kingdom — [5]Université Paris Saclay - IJCLab, France — [6]Technische Universität Darmstadt, Fachbereich Physik, Institut für Kernphysik, 64289, Darmstadt, Germany — [7]Justus-Liebig-Universität Gießen, Gießen, Germany — [8]Universidade da Coruña, Campus Industrial, CITENI, s/n. 15403, Ferrol (A Coruña, España), Spain — [9]Helmholtz-Zentrum Dresden-Rossendorf, Institute of Radiation Physics, Bautzner Landstraße 400, 01328, Dresden, Germany — [10]Instituto de Física Corpuscular (CSIC-UV), Parque Científico, Catedrático José Beltrán, 2, 46980, Paterna, Spain — [11]East Texas A&M University, 75428, Commerce, TX, United States of America — [12]CEA Bruyeres le Chatel, Chemin du Ru, 91297, Bruyères-le-Châtel, France — [13]Spanish National Research Council Madrid, Instituto de Estructura de la Materia, Serrano 113bis, 28006, Madrid, Spain — [14]Science and Technology Facilities Council - Daresbury Laboratory, WA4 4AD, Warrington, United Kingdom — [15]Goethe-Universität Frankfurt, Max-von-Laue Str. 1, 60438, Frankfurt am Main, Germany — [16]Universität zu Köln, Institut für Kernphysik, Zülpicher Straße 77, 50937, Köln, Germany — [17]IFIN-HH Bucharest, Romania — [18]University of Vigo, Escola de Enxeñería Industrial - CAMPUS, Campus Universitario Lagoas-Marcosende, 36310, Vigo, Spain — [19]University of Surrey, GU2 7XH, Surrey, United Kingdom — [20]Lund University, Department of Physics, P.O. box 118, 221 00, Lund, Sweden — [21]Institute of Space Science, 409, Atomistilor Street, Magurele, Romania — [22]Laboratory for Instrumentation and Experimental Particle Physics, Av. Prof. Gama Pinto 2, 1649-003, Lisbon, Portugal — [23]CEA Saclay, IRFU/DPhN, Centre de Saclay, 91191, Gif-sur-Yvette, France — [24]Center for Theoretical and Computational Physics, Faculdade de Ciencias, University of Lisbon, 1749-016, Lisbon, Portugal — [25]University of Lisbon - Faculdade de Ciencias, Campo Grande, 1649-016, Lisbon, Portugal — [26]Instituto Superior Tecnico, University of Lisbon, Lisboa, Portugal — [27]INFN Sezione di Catania, Via Santa Sofia 64, 95123, Catania, Italy — [28]RIKEN, Nishina Center for Accelerator-Based Science, 2-1 Hirosawa, 351-0198, Wako, Saitama, Japan — [29]ATOMKI Debrecen, Bem tér 18/c, 4026, Debrecen, Hungary — [30]Helmholtz Forschungsakademie Hessen für FAIR (HFHF) - Campus Darmstadt, Darmstadt, Germany — [31]Università di Catania, Dipartimento di Fisica e Astronomia "Ettore Majorana", Via S. Sofia 64, 95123, Catania, Italy — [32]Facility for Antiproton and Ion Research, Darmstadt, Germany — [33]RBI Zagreb, Bijenicka cesta 54, HR10000, Zagreb, Croatia — [34]University of Jyväskylä, Finland — [35]Technische Universität München, James-Franck-Str 1, 85748, Garching, Germany — [36]Universidade de São Paulo, Rua do Matao, 1371, Departamento de Física Nuclear, 05508-090, São Paulo, Brazil — [37]University of Groningen - ESRIG, Nuclear Energy Group, Groningen, Netherlands — [38]Chalmers University of Technology, Department of Physics, Kemivägen 9, 412 96, Göteborg, Sweden — [39]Massachusetts Institute of Technology, United States of America — [40]Nuclear Physics Center, University of Lisbon, Lisboa, Portugal — [41]Eötvös Loránd University, Eötvös Loránd University, Department of Atomic Physics, 1117, Budapest, Hungary — [42]LP2i Bordeaux, France — [43]Lawrence Berkeley National Laboratory, 1 Cyclotron Rd,

94720, Berkeley, CA, United States of America — [44]University of Applied Science Aachen, Fachbereich 10 - Energietechnik, Physik / Kernphysik, Heinrich-Mußmann-Straße 1, 52428, Jülich, Germany — [45]GANIL, Bd Henri Becquerel, 14076, Caen, France — [46]Institute of Nuclear Physics PAN Krakow, Poland — [47]ORNL Oak Ridge, United States of America — [48]Institute of Science Tokyo, 2 Chome-12-1, 152-8550, Tokyo, Japan — [49]INFN Laboratori Nazionali del Sud, Via Santa Sofia 62, 95123, Catania, Italy — [50]Institute for Basic Science, Center for Exotic Nuclear Studies, 34126, Daejeon, Korea (Republic of) — [51]Peking University, 5 Yiheyuan Rd, Haidian Qu, 100080, Beijing, China — [52]Tel Aviv University, School of Physics and Astronomy, 69978, Tel Aviv, Israel — [53]Saint Mary's University, 923 Robie Street, B3H 3C3, Halifax, Nova Scotia, Canada — [54]Università degli studi di Messina, Italy — [55]Technische Universität Dresden, Institut für Kern- und Teilchenphysik, Zellescher Weg 19, 01069, Dresden, Germany — [56]Beihang University, China — [57]RCNP Osaka, Japan — [58]Jozef Stefan Institute, Jamova cesta 39, 1000, Ljubljana, Slovenia — [59]University of Tokyo, Japan — [60]Facility for Rare Isotope Beams / Michigan State University, United States of America — [61]INFN Legnaro, Italy

Coll 34: RADES MPP-Collaboration
Elisa Gabbrielli, Babette Döbrich, Cristian Cogollos, José María García Barceló, Tobias Ortmann, Saba Kopaliani, and Ziheng Yang — Max Planck für Physik, Munich

Coll 35: RADRIS-Collaboration
Kenneth van Beek[1,2], Brankica Andelic[2,3,4], Aayush Arya[4,5], Sebastian Berndt[4], Michael Block[2,4,5], Alexandre Brizard[6], Premaditya Chhetri[4,5], Arno Claessens[7], Antoine De Roubin[8], Christoph Düllmann[2,4,5], Rafael Ferrer[7], Sarina Geldhof[6], Francesca Giacoppo[2,5], Manuel Jesus Gutiérrez[2,9], Briain Hartigan[2,3,4], Raphael Hasse[4], Fedor Ivandikov[7], Biswajit Jana[4], Magda Kaja[4], Oliver Kaleja[2,9], Tom Kieck[2,5], Mustapha Laatiaoui[6], Jeremy Lantis[10], Nathalie Lecesne[6], Andrew Mistry[1,2], Ian Moore[11], Danny Münzberg[2,4,5], Thorben Niemeyer[4], Steven Nothhelfer[2,4,5], Sebatian Raeder[2,5], Andrea Raggio[11], Emmanuel Rey-Herme[12], Elisabeth Rickert[2,4,5], Daniel Rodriguez[12], Jekabs Romans[7], Elisa Romero-Romero[4], Hervé Savajols[6], Matou Stemmler[4], Dominik Studer[2,5], Marine Vandebrouck[13], Piet Van Duppen[7], Thomas Walther[1], Jessica Warbinek[14], Klaus Wendt[4], and Jana Weyrich[4] — [1]Technische Universität Darmstadt, Deutschland — [2]GSI Helmholtzzentrum für Schwerionenforschung, Deutschland — [3]University of Groningen, Netherlands — [4]Johannes Gutenberg University, Mainz, Deutschland — [5]Helmholtz-Institut Mainz, Deutschland — [6]GANIL, CEA/DRF-CNRS/IN2P3, Caen, France — [7]KU Leuven, IKS, Belgium — [8]LPC Caen, Normandie Univ, ENSICAEN, UNICAEN, CNRS, France — [9]Universität Greifswald, Deutschland — [10]Argonne National Laboratory, USA — [11]University of Jyväskylä, Finland — [12]University of Granada, Spain — [13]CEA Saclay, France — [14]CERN

Coll 36: RIBF249-Collaboration
Debajyoti Das[1,2], Kathrin Wimmer[2,3], Sidong Chen[4], Ting Gao[4], Marina Petri[4], Marcell Begala[5], Frank Browne[6], Martha Liliana Cortés[7], Pieter Doornenbal[7], Zoltan Elekes[5], Zoltán Halász[5], Zsófia Iszály[5], Andrea Jungclaus[8], Jiseok Kim[9], Gábor Kiss[5], István Kuti[5], Marc Labiche[10], Jenny Lee[11], Hongna Liu[12], Tuoqi Liu[12], Xiaoyu Liu[11], William Marshall[4], Byul Moon[9], Stefanos Paschalis[4], Wiktor Poklepa[2], Martha Reece[2], Hiroyoshi Sakurai[7], Lucía Sánchez Blázquez[8], Claudio Santonastaso[7], Peter Schury[13], Joshua Sharpe[4], Dorottya Sohler[5], Yelei Sun[14], Ryo Taniuchi[4], Luke Tetley[4], Yasuhiro Togano[7], Carl Unsworth[10], Kang Wei[12], Yingfeng Xu[11], and Yuna Yang[12] — [1]Institut für Kernphysik, Technische Universität Darmstadt, 64289 Darmstadt, Germany — [2]GSI Helmholtzzentrum für Schwerionenforschung GmbH, Planckstraße 1, 64291 Darmstadt, Germany — [3]Institut für Kernphysik, Universität zu Köln, Zülpicher Str. 77, 50937 Köln, Germany — [4]University of York, Heslington, York YO10 5DD, United Kingdom — [5]HUN-REN Atommagkutató Intézet, 4026 Debrecen, Bem tér 18/c, Hungary — [6]University of Manchester, Oxford Road, Manchester, M13 9PL, UK — [7]RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan — [8]Instituto de Estructura de la Materia, CSIC, C. de Serrano, 113, Chamartín, 28006 Madrid, Spain — [9]Institute for Basic Science, Daejeon, South Korea, 34126 — [10]STFC Daresbury Laboratory, Daresbury, Warrington WA4 4AD, United Kingdom — [11]The University of Hong Kong (HKU), Pok Fu Lam, Hong Kong — [12]Beijing Normal University, 19 Xinwai Ave, Beitaipingzhuang, Haidian District, Beijing, China, 100875 — [13]Wako Nuclear Science Center, Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization (KEK), 1-1 Oho, Tsukuba, Ibaraki 300-3256, Japan — [14]Beihang University, 37 Xueyuan Rd, Haidian District, Beijing, China, 100191

Coll 37: RNO-G-Collaboration
Pascal Schriefer — Friedrich-Alexander-Universität Erlangen-Nürnberg

Coll 38: SHiP-D-Collaboration
Alperen Aksoy[4], Katharina Albrecht[2], Tabea Arndt[3], David Arutinov[4], Ilja Bekman[4], Daniel Bick[7], Maksim Borisyak[5], Alessia Brignoli[2], Luis Brombach[1], Volker Buescher[6], Markus Cristinziani[8], Magnus Dam[3], Patrick Deucher[6], Torben Ferber[3], Horst Fischer[1], Caren Ines Hagner[7], Annika Hollnagel[6], Cigdem Issever[2], Viktor Koch[4], Vadim Kostyukhin[8], Iuliia Krasilnikova[5], Andres Krolla[1], Heiko Markus Lacker[2], Oliver Lantwin[8], Wei-Chieh Lee[7], Fairhurst Lyons[1], Johannes Amadeu Molins I Bertram[6], Tim Aaron Molzberger[1], Anne-Sophie Muller[1], Santiago Ludgardo Ochoa Guaman[1], Ulrich Parzefall[1], Anupama Reghunath[2], Dominique Riester[1], Sebastian Ritter[6], Christian Scharf[2], Walter Schmidt-Parzefall[7], Elisabeth Schopf[8], Marc Schumann[1], Peter Schupp[5], Frank Steeg[6], Eduard Ursov[2], Andrey Ustyuzhanin[5], Stefan Heinrich Van Waasen[4], Rainer Wanke[6], James Maitland Webb[1], Christian Weiser[1], Johannes Wenk[1], Ida Maria Wostheinrich[2], and Michael Wurm[6] — [1]Albert-Ludwigs-Universität Freiburg — [2]Humboldt-Universität zu Berlin — [3]Karlsruhe Institute of Technology — [4]Forschungszentrum Jülich GmbH — [5]Constructor University — [6]Johannes Gutenberg-Universität Mainz — [7]Universität Hamburg — [8]Universität Siegen

Coll 39: SHiP-SBT-Collaboration
Alperen Aksoy[2], Katharina Albrecht[3], Ilja Bekman[2], Oleg Bezshyyko[5], Hannes Braune[3], Alessia Brignoli[3], Maik Daniels[3], Constantin Eckardt[3], Chimezie Eguzo[3], Horst Fischer[1], Larysa Golinka-Bezshyyko[5], Christian Grewing[2], Annika Hollnagel[4,6], Viktor Koch[2], Andres Krolla[1], Tykhon Kurkin[5], Heiko Markus Lacker[3], Darja Lund[3], Paul Luther[1], Fairhurst Lyons[1], Tim Molzberger[1], Anne Sophie Müller[1], Santiago Ochoa[1], Harshivraj Oza[3], Andrii Pauchkov[5], Anupama Reghunath[3], Tilman Rock[1], Florian Roessing[2], Christian Scharf[3], Marc Schumann[1], Stefan Heinrich van Waasen[2], Jasmin Weiss[3], Ida Wöstheinrich[3], and Michael Wurm[4] — [1]Albert-Ludwigs-Universität Freiburg — [2]Forschungszentrum Jülich GmbH — [3]Humboldt-Universität zu Berlin — [4]Johannes Gutenberg-Universität Mainz — [5]Taras Shevchenko National University of Kyiv — [6]present Address: Chiba University, International Center for Hadron Astrophysics

Coll 40: SKA HECP SWG-Collaboration
Sjoerd Boema[1], Justin Bray[2], Stijn Buitink[3,11], Arthur Corstanje[3,11], Vital De Henau[3], Tim Huege[3,5], Edwin Dickinson[6], Brian Hare[7,8], Haoning He[9,10], Jörg Hörandel[3,11,12], Clancy James[6], Philipp Laub[1], Xingyu Li[13], Hermann-Josef Mathes[5], Katharine Mulrey[11,12], Anna Nelles[1,14], Subhadip Saha[5], Felix Schlüter[4], Olaf Scholten[7], Ralph Spencer[2], Christopher Sterpka[8], Karen Terveer[1], Satyendra Thoudam[15], Gia Trinh[16], Paulina Turekova[8], Darko Veberic[5], Keito Watanabe[5], Chao Zhang[17,13], Pengfei Zhang[18], and Yi Zhang[9] — [1]Erlangen Centre for Astroparticle Physics, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany — [2]Jodrell Bank Centre for Astrophysics, Department of Physics and Astronomy, University of Manchester, Manchester, United Kingdom — [3]Inter-University Institute For High Energies, Vrije Universiteit Brussel, Brussels, Belgium — [4]Université Libre de Bruxelles, Brussels, Belgium — [5]Institute for Astroparticle Physics, Karlsruhe Institute of Technology, Karlsruhe, Germany — [6]International Centre for Radio Astronomy Research, Curtin University, Bentley, Australia — [7]Kapteyn Astronomical Institute, University of Groningen, Groningen, Netherlands — [8]Netherlands Institute for Radio Astronomy (ASTRON), Dwingeloo, The Netherlands — [9]Key Laboratory of Dark Matter and Space Astronomy, Purple Mountain Observatory, Chinese Academy of Sciences, Nanjing, China

— [10]School of Astronomy and Space Science, Nanjing University, Nanjing, China — [11]Department of Astrophysics/IMAPP, Radboud University Nijmegen, Nijmegen, The Netherlands — [12]Nikhef, Science Park Amsterdam, Amsterdam, The Netherlands — [13]Key Laboratory of Modern Astronomy and Astrophysics, Nanjing University, Ministry of Education, Nanjing, China — [14]Deutsches Elektronen-Synchrotron DESY, Zeuthen, Germany — [15]Department of Physics, Khalifa University, Abu Dhabi, United Arab Emirates — [16]Physics Education Department, School of Education, Can Tho University, Can Tho City, Vietnam — [17]School of Astronomy and Space Science, Nanjing University, Nanjing, China — [18]School of Electronic Engineering, Xidian University, Xian, China

Coll 41: Super-FRS Experiment Collaboration-Collaboration
Jamie Harkin — FAIR Facility for Antimatter and Ion Research

Coll 42: tauSPECT-Collaboration
Julian Auler[1], Martin Engler[1,2], Viktoria Ermuth[1], Martin Fertl[1], Konrad Franz[1,2], Werner Heil[1], Simon Kaufmann[1,2], Bernhard Lauss[3], Niklas Pfeiffer[1], Dieter Ries[2,3], Sylvain Vanneste[1], and Noah Yazdandoost[3] — [1]Institute of Physics, Johannes Gutenberg University Mainz, 55099 Mainz, Germany — [2]Department of Chemistry - TRIGA site, Johannes Gutenberg University Mainz, 55099 Mainz, Germany — [3]Paul Scherrer Institut, 5232 Villigen PSI, Switzerland

Coll 43: w7-x team-Collaboration
pei ren[1,3], yunfeng liang[1,3], shuai xu[1], frederik henke[2], alexander knieps[1], maciej krychowiak[2], birge buttenschön[2], alice bonciarelli[2], sebastijan brezinsek[1], dorothea gradic[2], daihong zhang[2], carsten killer[2], luo yu[1,3], marcin jakubowski[2], petra kornejew[2], and erhui wang[1] — [1]Institute of Fusion Energy and Nuclear Waste Management, Forschungszentrum Jülich GmbH, Jülich, Germany — [2]Max Planck Institute for Plasma Physics, Greifswald, Germany — [3]Faculty of Mathematics and Natural Science, Heinrich Heine University Düsseldorf, Düsseldorf, Germany