

Curriculum Vitæ

Andrea Giachero

Last update on May 24, 2018

Birthdate: April 27, 1979
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Education

- **Ph.D in Physics**, University of Genoa, Department of Physics, March 2008. Dissertation: "*Characterization of cryogenic bolometers and data acquisition system for the CUORE experiment*". Advisor: Prof. Marco Pallavicini, University and INFN of Genoa. Co-Advisor: Dr. Carlo Bucci, Laboratori Nazionali del Gran Sasso (LNGS).
- **Diploma di Laurea in Fisica (Italian M.Sc. in Physics)**, University of Genoa, Department of Physics, July 2004. Dissertation: "*Sviluppo di un Apparato di caratterizzazione per l'elettronica di EUSO*" ("*Development of an apparatus for the EUSO electronics characterization*"). Advisor: Prof. Marco Pallavicini, University and INFN of Genoa.

Employment and Career history

- **October 2017 - Present:** Assistant Researcher (Art. 24, L.n. 240/10, 30 dicembre 2010) at the University of Milano-Bicocca;
- **April 2017 - Aprile 2023:** Italian Qualification for University Associate Professors in experimental physics of fundamental interactions
- **June 2015 - May 2017:** Staff Researcher (Art. 36 D.Lgs. 30 marzo 2001, n. 165) at the Italian Institute of Nuclear Physics (INFN), Unit of Milano-Bicocca;
- **June 2012 - May 2015:** post-doctoral fellowship at the University of Milano-Bicocca within the project *Development of Microresonator Detectors for Neutrino Physics*;

- **May 2012:** first selected candidate, amongst 16 admitted, for a Post-Doctoral Research fellowship at University of Milano Bicocca (*declined*);
- **January 2009 - May 2012:** post-doctoral fellowship at the Italian Institute of Nuclear Physics (INFN), Unit of Milano-Bicocca;
- **May 2008 - December 2008:** post-doctoral fellowship at L'Università degli Studi "La Sapienza", Roma;
- **January 2006 - December 2007:** INFN fellowship for young technologist at Gran Sasso Underground Laboratory.

Scientific responsibilities

- **2018 - present:** Member of the CUORE Publication Board;
- **2017 - present:** Member of the CUORE Detector Response Working Group;
- **2016 - present:** Member of the HOLMES Publication Board (HPB);
- **2015 - present:** National coordinator for the KIDS_RD project leading a team composed of 8 people from the INFN Units of Milano-Bicocca, Genova and Roma1 "La Sapienza";
- **2014 - present:** Coordinator for readout and multiplexing systems working group for the HOLMES experiment, leading a team composed of 4 people from Italy (University and INFN of Milano-Bicocca) and USA (NIST, Boulder, Colorado, USA). Total Budget 150k€;
- **2012 - 2015:** Coordinator for the Slow Control System working group of the CUORE experiment, leading a team composed by 6 people from Italy (INFN of Bologna, University of Cassino, LNGS) and United States (UCLA, University of California, Los Angeles, USA). Budget around 25k€ per year;

Scientific Collaborations and Affiliations

- **2015 - present:** KIDS_RD project: national coordinator and local coordinator for INFN Unit of the Milano-Bicocca;
- **2014 - present:** HOLMES experiment: coordinator of the read-out and multiplexing systems;
- **2012 - 2015:** MKIDs R&D: detector development and characterization, readout and data acquisition development and data analysis;
- **2011 - 2013:** GERDA (GERmanium Detector Array) Experiment - Phase II: detector characterization and electronics development;
- **2010 - 2015:** LHCb (Large Hadron Collider beauty) experiment, subdetector RICH (RIng-imaging CHerenkov detector) Upgrade: photomultiplier characterization, readout electronics and data acquisition development;

- **2009 - 2013:** MARE-1 (Microcalorimeter Arrays for a Rhenium Experiment) experiment: data acquisition and electronics readout development;
- **2005 - present:** CUORE (Cryogenic Underground Observatory for Rare Events) experiment: development of the the RAD (Radiation Array Detector) detector arrays and development of the data acquisition and electronics readout. Since 2012 coordinator for the Slow Control System (CUORE-SCS). Since 2015 member of the CUORE Computing Infrastructure Working Group (CIWG). Since 2017 member of the CUORE Detector Response Working Group.
- **2010 - 2015:** Associated member of the European Organization for Nuclear Research (CERN);
- **2005 - present:** Associated member of the Gran Sasso National Laboratory (LNGS);

Scientific performances

- 110 publications in peer-reviewed international journals with 978 citations, excluding self-cites (source Web of Science, January 2018). One paper exceeding 200 citations and two papers exceeding 150 citations.
- 71 of 110 publications without the presence as co-author of the Ph.D. supervisor, with 445 citations excluding self-cites (source Web of Science, January 2018);
- More than 40 publications in refereed conference proceedings;
- 7 invited oral presentation for seminars, conferences and workshop;
- More than 10 presentations at international conferences
- Several oral presentations at CERN and LNGS for internal reviews;
- Bibliometric indexes listed in the table below;

	Inspire	Web of Science	Scopus
# of papers	119	110	122
# of citations	2487	1245	1298
Average citations	20.9	11.3	10.6
h-index	22	17	16

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Invited at International Conferences, Workshops and Meetings

- 2016 – “Assess the neutrino mass with micro and macro calorimeter approach”, invited presentation at the 7th Young Researcher Meeting 2016 (7YRM), 24 - 26 October 2016, Turin, Italy;

- 2015 – *“High resolution X-ray spectroscopy with Kinetic Inductance Detectors”*, invited presentation at the annual meeting of the Commission V of the INFN (CSN5), 28 September - 02 October 2015, INFN National Laboratories of the South (LNS, Laboratori Nazionali del Sud) Catania, Italy;
- 2014 – *“High resolution X-ray spectroscopy with Kinetic Inductance Detectors”*, invited presentation at the annual meeting of the Commission V of the INFN (CSN5), 24 - 25 November 2015, Rome, Italy;
- *“The Electron Neutrino Mass Measurement by the HOLMES experiment: a Status Report”*, invited presentation at the Chalonge Meudon Workshop 2014, 4 - 6 June 2014, CIAS Observatoire de Paris, Meudon campus, Château de Meudon;

Invited Seminars and Lectures

- 2015 – *“The Electron Capture Decay of “HOLMES, an experiment for a direct measurement of neutrino mass”*, seminar presented at the Centre de Sciences Nucléaires et de Sciences de la Matière (CSNSM/IN2P3), Groupe Physique du solide, 2 December 2015, Campus d’Orsay, France;
- *“The Electron Capture Decay of ^{163}Ho to Measure the Electron Neutrino Mass with improved sensitivity: The HOLMES experiment”*, seminar presented at Neutrino Club, IRFU CEA-Saclay Laboratoire, 1 December 2015, Gif-sur-Yvette Cedex, France;
- *“The Electron Capture Decay of ^{163}Ho to Measure the Electron Neutrino Mass with improved sensitivity”*, seminar presented at the Laboratoire Leprince-Ringuet École Polytechnique IN2P3/CNRS, 03 November 2015, Palaiseau, France;
- 2012 – *“The CUORE Experiment: Bolometric Techniques for Double Beta Decay”*, seminar presented at the FLAP, Friday Lunch With Astroparticle, University of Padua, Departments of Physics, 19 November 2012, Padua, Italy
- *“Cerenkov light studies at low and high energy with the UVIScope data acquisition system”*, seminar presented at the Italian Institute of Space Astrophysics and Cosmic Physics of Palermo (IASF Palermo), 03 April 2012, Palermo, Italy.

Presentations at International Conferences and Workshops

- 2016 – *“Measuring the Electron Neutrino Mass with improved sensitivity: the HOLMES experiment”*, oral presentation at the 14th Topical Seminar on Innovative Particle and Radiation Detectors (IPRD16), 3 - 6 October, 2016, Siena, Italy;
- *“Microwave rf-SQUID multiplexing read-out for the HOLMES experiment”*, poster presentation at the ECT* Trento Workshop on direct (anti-)neutrino mass determination, 4 - 8 April, 2016, ECT, European Centre for Theoretical Studies in Nuclear Physics and Related Areas, Trento, Italy;
- 2015 – *“Development of microwave-multiplexed superconductive detectors for the HOLMES experiment”*, poster presentation at the XIV International Conference on Topics in

- Astroparticle and Underground Physics (TAUP2015), 7 - 11 September, 2015, Turin, Italy;
- *“Development of microwave superconducting microresonators for neutrino mass measurement in the HOLMES framework”*, oral and poster presentation at the 16th International Workshop on Low Temperature Detectors (LTD-16), 20 - 24 July, 2015, Grenoble, France;
- 2014 – *“The CUORE and CUORE-0 Experiments at Gran Sasso”*, oral presentation at the 3rd International Conference on New Frontiers in Physics (ICNFP 2014), 28 July - 6 August 2014, Kolymbari, Crete, Greece;
- 2013 – *“Superconducting microresonator detectors for neutrino mass measurements in Milano”*, oral presentation at the 10th International Workshop On Low Temperatures Electronics, 14 - 17 October, Paris, France;
- *“Critical Temperature tuning of Ti/TiN multilayer films suitable for low temperature detectors”*, poster presentation at the 15th International Workshop on Low Temperature Detectors (LTD-15), 24 - 28 June, 2013, Pasadena, California, USA;
- 2012 – *“A Multichannel Data Acquisition system for bolometer detectors based on microcontroller Cortex M3 architecture”*, poster presentation at the 2012 Nuclear Science Symposium and Medical Imaging Conference (2012 NSS-MIC), 27 October - 03 November, 2012, Anaheim, California, USA;
- 2011 – *“A Very Low Noise AC/DC Power Supply System for Large Arrays of Cryogenic Detectors”*, poster presented at the 2011 Nuclear Science Symposium and Medical Imaging Conference (2011 NSS-MIC), 23 - 29 October, 2011, Valencia, Spain;
- *“The status of the CUORE experiment”*, oral presentation at the Nuclear Physics in Astrophysics - V (NPAV) Conference, 3 - 8 April, 2011, Eilat, Israel;
- 2010 – *“The Bias Generator System for the CUORE Large Mass Bolometer Detectors”*, poster presentation at the 2010 Nuclear Science Symposium and Medical Imaging Conference (2010 NSS-MIC), 30 October - 6 November, 2010, Knoxville, Tennessee, USA;
- *“A very high performance stabilization system for large mass bolometer experiments”*, poster presentation at the 12th Symposium on Radiation Measurements and Applications (SORMA XII), 24 - 28 May, 2010, Ann Arbor, Michigan, USA;
- 2009 – *“A programmable multichannel antialiasing filter for the CUORE experiment”* poster presentation at the 11th Pisa meeting on advanced detectors, Frontier Detectors For Frontier Physics, 24 - 30 May 2009, La Biodola, Isola d’Elba, Italy;
- 2006 – *“CUORICINO, tecniche bolometriche per lo studio del Doppio Decadimento Beta” (CUORICINO, bolometric techniques for Double Beta Decay Study)* oral presentation at Società Italiana di Fisica, XCII National Conference, 18 - 23 September 2006, Turin, Italy.

Organisation of scientific Meetings, Conferences and Workshops

- 2019 – Member of the Scientific and Local Organization Committee for the “17th international Workshop on Low Temperature Detectors. cryogenic detectors for radiation and particles, and their applications”, that will be held at Milano, Italy, in July 2019;
- 2016 – Chair of the Scientific and Local Organization Committee for the “5th Workshop on the Physics and Applications of Superconducting Microresonators, WPASM5”, 22 - 24 June 2016, University of Milano-Bicocca, Italy;
- 2013 – Member of the Scientific and Local Organization Committee for the workshop “vMass 2013, The Future of Neutrino Mass Measurements: Terrestrial, Astrophysical, and Cosmological Measurements in the Next Decade”, 4 - 7 February 2013, University of Milano-Bicocca, Italy;

Referee and Reviewer:

- **2018 - present:** Reviewer for AIP Advances;
- **2017 - present:** Reviewer for Journal of Applied Physics (JAP);
- **2016 - present:** Reviewer for IEEE Transactions on Applied Superconductivity (TAS);
- **2013 - present:** Reviewer for Journal of Low Temperature Physics (JLTP);

Qualifications and Skills

- **Experimental physics:** particle physics, neutrino physics, search of rare events, search of neutrinoless double beta decay;
- **Detectors:** development and construction of large and micro low temperature calorimetric detectors for the study on the neutrinoless double beta decay (CUORE R&D, CUORE-0), direct measurement of the neutrino mass (MARE1) and for the study of radioactive contaminations. Characterization of light detectors, based on Multianode Photomultiplier (MaPMT), for single photon-electron counting (LHCb-RICH upgrade). Development of superconductive microresonator (MKIDs) and transition edge sensor (TES) for the direct measurement of the neutrino mass (HOLMES);
- **Data analysis:** analysis of experimental data using Python, and its numeric and scientific modules, the object oriented framework ROOT, the GNU Scientific Library (GSL), the Fastest Fourier Transform in the West Library (FFTW, for computing discrete Fourier transforms), and the computing environment Matlab;
- **Signals theory:** good knowledge of digital signal processing, digital filtering (FIR, IIR), Fast Fourier Transform algorithm, homodyne and heterodyne readout techniques, Software defined radio (SDR) applications for micro-resonators readout and lock-in amplifier, also using DSP;

- **Programming:** very good knowledge of the programming language C/C++, on GNU/Linux environment (gcc compiler) and on Windows environment (wxDev-C++ and Visual C++ compilers). Very good knowledge of scripting languages on GNU/Linux environment (in particular Bash and Perl). Very good knowledge of the programming languages Python and its numeric and scientific modules. Basic knowledge of the programming languages Ruby and Go. ;
- **Data acquisition and control:** very good knowledge in instrumentation control and data acquisition system development by using different communication protocols and different programming languages. Good knowledge of the National Instruments and CAEN acquisition systems, PXI Platform, VME bus, GPIB communications bus, standard VISA and CAN-Bus. Very good knowledge of the ANSI C programming environment LabWindows/CVI, developed by National Instruments. Basic knowledge of the .NET programming environment Measurement Studios, developed by National Instruments. Basic knowledge of the system-design platform LabVIEW, developed by National Instruments;
- **Electronics:** experience in design and characterization of custom boards; in particular very front-end electronics, anti-aliasing filters and calibration systems, for low temperature detectors. Experience with microcontrollers (ARM, Cortex and 8051 families);
- **Development tools:** good knowledge of the Cadence OrCAD tool suite (OrCAD Capture, OrCAD Layout, OrCAD PCB Editor). Very good knowledge of the uVision4/5 compiler for ARM, Cortex-M, Cortex-R4, 8051, C166, and 251 processor families. Good knowledge of the Xilinx ISE Design Kit for synthesis and analysis of HDL (Hardware Description Language) design.
- **Operating System:** excellent knowledge of the distribution GNU/Linux, in particular Debian/Ubuntu and Scientific Linux. Good knowledge of Microsoft Windows.

Teaching and Advising Experiences

Academic Service:

- **2017 - present:** member of the final Oral Examination Committee for the B.Sc. and M.Sc. degrees in physics at the University of Milano-Bicocca;
- **2017 - present:** member of the Selection Board for post-doc recruitment at the University of Milano-Bicocca;

Classes:

- **2017 - present:** lectures on "Laboratory of Physics II", course for B.Sc. students at the University of Milano Bicocca;
- **2013 - present:** lectures on "Laboratory of Physics I", course for B.Sc. students at the University of Milano Bicocca;
- **2014:** tutor for the "LHCb International Physics Masterclasses", 25 March 2014, University of Milano Bicocca. Activity promoted by the International Particle Physics Outreach group (IPPOG);

- **2009 - 2013:** lectures on "Laboratory of Analog Electronics", course for B.Sc. students at the University of Milano Bicocca;
- **2009 - 2010:** lectures on "Digital Electronics", course for B.Sc. students at the University of Milano Bicocca;

Advisor:

- 2017 – Mauri Beatrice "Noise characterization of Transition Edge Sensor cryogenic microcalorimeters for the neutrino mass measurement", B.Sc thesis in Physics at the University of Milano Bicocca. Co-Advisor: Dr. Elena Ferri;

Co-Advisor:

- 2017 – Maver Leonardo "Characterization of Transition-Edge Sensors for the direct measurement of the neutrino mass", M.Sc thesis in Physics at the University of Milano Bicocca. Advisor: Prof. Angelo Nucciotti;
- Fendillo Alessandro "Thermal conductance estimation of detectors in an experiment for the calorimetric measurement of the neutrino mass", B.Sc thesis in Physics at the University of Milano Bicocca. Advisor: Prof. Angelo Nucciotti;
- 2013 – Bianchi Filippo "Design and realization of a multichannel data acquisition system for bolometers based on simultaneous 24-bit Delta-Sigma sampling and RISC ARM Cortex M4 microcontroller", M.Sc thesis in Physics at the University of Milano Bicocca. Advisor: Prof. Gianluigi Pessina;
- 2012 – Gelmi Lorenzo "Realization of a multi-protocol (TPC/IC, USB, CAN-Bus, I2C, SPI, etc) communication interface based on 32-bit ARM Cortex M3 microcontroller", B.Sc thesis in Physics at the University of Milano Bicocca. Advisor: Prof. Gianluigi Pessina;
- 2011 – Rota Lorenzo "Realization of a multi-protocol Multi-channel (analog/digital) scanning system of sensors of environmental pollution synchronized with GPS or via Ethernet and based on Cortex ARM microcontroller for SMELLER experiment", B.Sc thesis in Physics at the University of Milano Bicocca. Advisor: Prof. Gianluigi Pessina;
- Gavardi Laura "Validation of the electric and radioactive performances of the CUORE experiment high density link", B.Sc thesis in Physics at the University of Milano Bicocca. Advisor: Prof. Chiara Brofferio;
- 2009 – Ferreiro Iachellini Nahuel "Implementation of CUORE antialiasing filter firmware and communication system with CAN-BUS protocol, developed on ARM platform", B.Sc thesis in Physics at the University of Milano Bicocca. Advisor: Prof. Gianluigi Pessina;
- Tarantola Marco "Development, based on a ARM microcontroller, of the control system for an ultrastable calibration pulser for the CUORE experiment", B.Sc thesis in Physics at the University of Milano Bicocca. Advisor: Prof. Gianluigi Pessina;

Outreaching:

- **2014:** tutor for the "LHCb International Physics Masterclasses", 25 March 2014, University of Milano Bicocca. Activity promoted by the International Particle Physics Outreach group (IPPOG);

Publication List

Peer-reviewed journals

- [1] A. Puiu, D. Becker, D. Bennett, M. Biasotti, V. Ceriale, M. De Gerone, M. Faverzani, E. Ferri, J. Fowler, G. Gallucci, J. Gard, J. Hays-Wehle, G. Hilton, **A. Giachero**, J. Mates, A. Nucciotti, A. Orlando, G. Pessina, D. Schmidt, D. Swetz, J. Ullom and L. Vale, “**Updates on the Transition Edge Sensors and multiplexed readout for HOLMES**”, *Journal of Low Temperature Physics (JLTP)*, October 2018, [doi:10.1007/s10909-018-1950-z](https://doi.org/10.1007/s10909-018-1950-z).
- [2] C. Alduino, K. Alfonso, D. R. Artusa, F. T. Avignone, O. Azzolini, G. Bari, F. Bellini, G. Benato, A. Bersani, M. Biassoni, A. Branca, C. Brofferio, C. Bucci, A. Camacho, A. Caminata, L. Canonica, X. G. Cao, S. Capelli, L. Cappelli, L. Cardani, P. Carniti, N. Casali, L. Cassina, D. Chiesa, N. Chott, M. Clemenza, S. Copello, C. Cosmelli, O. Cremonesi, R. J. Creswick, J. S. Cushman, A. D’Addabbo, D. D’Aguanno, I. Dafinei, C. J. Davis, S. Dell’Oro, M. M. Deninno, S. Di Domizio, M. L. Di Vacri, A. Drobizhev, D. Q. Fang, M. Faverzani, E. Ferri, F. Ferroni, E. Fiorini, M. A. Franceschi, S. J. Freedman, B. K. **A. Giachero** Fujikawa, L. Gironi, A. Giuliani, L. Gladstone, P. Gorla, C. Gotti, T. D. Gutierrez, K. Han, K. M. Heeger, R. Hennings-Yeomans, H. Z. Huang, G. Keppel, Yu. G. Kolomensky, A. Leder, C. Ligi, K. E. Lim, Y. G. Ma, L. Marini, M. Martinez, R. H. Maruyama, Y. Mei, N. Moggi, S. Morganti, P. J. Mosteiro, S. S. Nagorny, T. Napolitano, M. Nastasi, C. Nones, E. B. Norman, V. Novati, A. Nucciotti, T. O’Donnell, J. L. Ouellet, C. E. Pagliarone, M. Pallavicini, V. Palmieri, L. Pattavina, M. Pavan, G. Pessina, C. Pira, S. Pirro, S. Pozzi, E. Previtali, C. Rosenfeld, C. Rusconi, M. Sakai, S. Sangiorgio, D. Santone, B. Schmidt, J. Schmidt, N. D. Scielzo, V. Singh, M. Sisti, L. Taffarello, F. Terranova, C. Tomei, M. Vignati, S. L. Wagaarachchi, B. S. Wang, H. W. Wang, B. Welliver, J. Wilson, L. A. Winslow, T. Wise, A. Woodcraft, L. Zanotti, G. Q. Zhang, S. Zimmermann and S. Zucchelli (CUORE Collaboration), “**Search for Neutrinoless β^+EC Decay of ^{120}Te with CUORE-0**”, *Physical Review C*, vol. 97, p. 055502, May 2018, [doi:10.1103/PhysRevC.97.055502](https://doi.org/10.1103/PhysRevC.97.055502), e-print: [arXiv:1710.07459 \[nucl-ex\]](https://arxiv.org/abs/1710.07459).
- [3] C. Alduino, K. Alfonso, E. Andreotti, C. Arnaboldi, F. T. Avignone III, O. Azzolini, I. Bاندac, T. I. Banks, G. Bari, M. Barucci, J.W. Beeman, F. Bellini, G. Benato, A. Bersani, D. Biare, M. Biassoni, A. Branca, C. Brofferio, A. Bryant, A. Buccheri, C. Bucci, C. Bulfon, A. Camacho, A. Caminata, L. Canonica, X. G. Cao, S. Capelli, M. Capodiferro, L. Cappelli, L. Cardani, P. Carniti, M. Carrettoni, N. Casali, L. Cassina, G. Ceruti, A. Chiarini, D. Chiesa, N. Chott, M. Clemenza, S. Copello, C. Cosmelli, O. Cremonesi, C. Crescentini, R. J. Creswick, J. S. Cushman, A. D’Addabbo, D. D’Aguanno, I. Dafinei, C. J. Davis, F. Del Corso, S. Dell’Oro, M. M. Deninno, S. Di Domizio, M. L. Di Vacri, L. Di Paolo, A. Drobizhev, L. Ejzak, R. Faccini, D. Q. Fang, M. Faverzani, E. Ferri, F. Ferroni, E. Fiorini, M. A. Franceschi, S. J. Freedman, B. K. Fujikawa, **A. Giachero**, L. Gironi, A. Giuliani, L. Gladstone, J. Goett, P. Gorla, C. Gotti, C. Guandalini, M. Guerzoni, T. D. Gutierrez, E. E. Haller, K. Han, E. V. Hansen, K. M. Heeger, R. Hennings-Yeomans, K. P. Hickerson, H. Z. Huang, M. Iannone, R. Kadel, G. Keppel, L. Kogler, Yu. G. Kolomensky, A. Leder, C. Ligi, K. E. Lim, Y. G. Ma, C. Maiano, L. Marini, M. Martinez, C. Martinez Amaya,

- R. H. Maruyama, Y. Mei, N. Moggi, S. Morganti, P. J. Mosteiro, S. S. Nagorny, T. Napolitano, M. Nastasi, C. Nones, E. B. Norman, V. Novati, A. Nucciotti, I. Nutini, T. O'Donnell, E. Olivieri, F. Orio, J. L. Ouellet, C. E. Pagliarone, M. Pallavicini, V. Palmieri, L. Pattavina, M. Pavan, M. Pedretti, A. Pelosi, G. Pessina, V. Pettinacci, G. Piperno, C. Pira, S. Pirro, S. Pozzi, E. Previtali, F. Reindl, F. Rimondi, L. Risegari, C. Rosenfeld, C. Rusconi, M. Sakai, E. Sala, C. Salvioni, S. Sangiorgio, D. Santone, D. Schaeffer, B. Schmidt, J. Schmidt, N. D. Scielzo, V. Singh, M. Sisti, A. R. Smith, F. Stivanello, L. Taffarello, M. Tenconi, F. Terranova, C. Tomei, G. Ventura, M. Vignati, S. L. Wagaarachchi, B. S. Wang, H. W. Wang, B. Welliver, J. Wilson, K. Wilson, L. A. Winslow, T. Wise, L. Zanotti, G. Q. Zhang, B. X. Zhu, S. Zimmermann and S. Zucchelli (CUORE Collaboration), **"First Results from CUORE: A Search for Lepton Number Violation via $0\nu\beta\beta$ Decay of ^{130}Te "**, *Physical Review Letters (PRL)*, vol. 120, p. 132501, March 2018, doi:10.1103/PhysRevLett.120.132501, e-print: [arXiv:1710.07988](https://arxiv.org/abs/1710.07988) [nucl-ex]. PRL Editors' Suggestion.
- [4] C. Alduino, K. Alfonso, F. T. Avignone III, O. Azzolini, G. Bari, F. Bellini, G. Benato, A. Bersani, M. Biassoni, A. Branca, C. Brofferio, C. Bucci, A. Caminata, A. Campani, L. Canonica, X. G. Cao, S. Capelli, L. Cappelli, L. Cardani, P. Carniti, N. Casali, L. Cassina, D. Chiesa, N. Chott, M. Clemenza, S. Copello, C. Cosmelli, O. Cremonesi, R. J. Creswick, J. S. Cushman, A. D'Addabbo, D. D'Aguzzo, I. Dafinei, C. J. Davis, S. Dell'Oro, M. M. Deninno, S. Di Domizio, M. L. Di Vacri, V. Domp, A. Drobizhev, D. Q. Fang, M. Faverezani, E. Ferri, F. Ferroni, E. Fiorini, M. A. Franceschi, S. J. Freedman, B. K. Fujikawa, **A. Giachero**, L. Gironi, A. Giuliani, L. Gladstone, P. Gorla, C. Gotti, T. D. Gutierrez, K. Han, K. M. Heeger, R. Hennings-Yeomans, H. Z. Huang, G. Keppel, Yu. G. Kolomensky, A. Leder, C. Ligi, K. E. Lim, Y. G. Ma, L. Marini, M. Martinez, R. H. Maruyama, Y. Mei, N. Moggi, S. Morganti, S. S. Nagorny, T. Napolitano, M. Nastasi, C. Nones, E. B. Norman, V. Novati, A. Nucciotti, I. Nutini, T. O'Donnell, J. L. Ouellet, C. E. Pagliarone, M. Pallavicini, V. Palmieri, L. Pattavina, M. Pavan, G. Pessina, C. Pira, S. Pirro, S. Pozzi, E. Previtali, F. Reindl, C. Rosenfeld, C. Rusconi, M. Sakai, S. Sangiorgio, D. Santone, B. Schmidt, J. Schmidt, N. D. Scielzo, V. Singh, M. Sisti, L. Taffarello, F. Terranova, C. Tomei, M. Vignati, S. L. Wagaarachchi, B. S. Wang, H. W. Wang, B. Welliver, J. Wilson, K. Wilson, L. A. Winslow, T. Wise, L. Zanotti, G. Q. Zhang, S. Zimmermann and S. Zucchelli (CUORE Collaboration), **"Study of Rare Nuclear Processes with CUORE"**, *International Journal of Modern Physics A (IJMPA)*, vol. 33, p. 1843002, March 2018, e-print: [arXiv:1801.05403](https://arxiv.org/abs/1801.05403) [nucl-ex]. Member of the Writing Committee.
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