



## Blas Cabrera

Stanley G. Wojcicki Professor, Emeritus

Physics

 Curriculum Vitae available Online

### CONTACT INFORMATION

- **Administrative Contact**

Julie Shih

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### Bio

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#### BIO

For five years up to mid-2015 has been Spokesperson for the SuperCDMS (Cryogenic Dark Matter Search) collaboration with twenty-two member institutions, which mounted a series of experiments in the Soudan mine in northern Minnesota to search for the dark matter in the form of weakly interacting massive particles or WIMPs. This direct detection effort has lead the world in sensitivity for much of the past ten years and utilizes novel cryogenic detectors using germanium and silicon crystals operated below 0.1 K. The completed CDMS II experiment operated 4 kg of germanium and 1 kg of silicon for two years and set the most sensitive limits at the time for spin-independent interactions for WIMPs masses above 40 GeV/c<sup>2</sup>. The SuperCDMS Soudan experiment operated 9 kg of germanium until the end of calendar 2015.

He was selected for a three-term as Project Director, through mid 2018, for the approved second generation (G2) SuperCDMS SNOLAB experiment which will operate 30 kg of Ge and Si detectors in the deeper SNOLAB facility in Canada. The project searches for low mass WIMPs (0.1 - 10 GeV/c<sup>2</sup>) and the cryostat facility will allow future upgrades to search down to the solar neutrino floor. It has recently been approved for full construction by the DOE and NSF.

#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Physics

#### ADMINISTRATIVE APPOINTMENTS

- Woodrow Wilson Fellowship, Woodrow Wilson National Fellowship Foundation, (1986-1986)
- Churchill Fellowship for study at Cambridge, Cambridge University, (1968-1968)
- Fellowship, National Science Foundation, (1968-1972)
- Research Associate, Stanford University, (1975-1979)
- Senior Research Associate, Stanford University, (1979-1980)
- Acting Assistant Professor, Physics Department, Stanford University, (1980-1981)
- Assistant Professor, Physics Department, Stanford University, (1981-1984)
- Associate Professor (untenured), Physics Department, Stanford University, (1984-1986)
- Associate Professor (tenured), Physics Department, Stanford University, (1986-1991)

- Full Professor (tenured), Physics Department, Stanford University, (1991- present)
- Stanley Wojcicki Chair of Physics, Stanford University, (2011- present)
- Fellow, Stanford University, (1988-1989)
- Fellow, Stanford University, (1989-1990)
- Fellow, American Physical Society, (1996-1996)

## HONORS AND AWARDS

- Stanford Dean's Award for Distinguished Teaching, Stanford University (1990)
- APS WKH Panofsky Prize in Experimental Particle Physics, American Physical Society (2013)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Committee on Fundamental Constants of National Research Council (1983 - 1987)
- Member, NSF Advisory Committee on Cosmology (1988 - 1988)
- Member, Advisory Panel for Electronics and Electrical Engineering at NIST (formally NBS) (1991 - 1993)
- Member, Senate of Academic Council, Stanford University (1991 - 1992)
- Member, Senate of Academic Council, Stanford University (2007 - 2008)
- Member, Senate of Academic Council, Stanford University (2009 - 2010)
- Visiting Scholar Appointment, Balliol College, Oxford University (1992 - 1993)
- Chair, Stanford Physics Department (1996 - 1999)
- Member, School of Humanities and Sciences Appointments and Promotions Committee, Stanford University (1998 - 2000)
- Chair of Varian 2 Building Committee, Stanford University (2003 - 2006)
- Deputy Director, Hansen Experimental Physics Laboratory (HEPL) (2003 - 2006)
- Director, Hansen Experimental Physics Laboratory (HEPL) (2006 - 2009)
- Elected foreign member, Real Academia de Ciencias in Spain (2013 - 2013)
- Member, Sigma Xi
- Member, American Physical Society (Division of Condensed Matter & Division of Astrophysics)
- Freshman Advisor, Stanford University (1982 - 1982)
- Freshman Advisor, Stanford University (1983 - 1984)
- Freshman Advisor, Stanford University (1984 - 1985)
- Chairman, Ph. D. Oral Committee (10 orals), Stanford University
- Physics Department representative on FUTURES, Faculty University Team to Understand Research Environments and Space, Stanford University (1985 - 1987)
- Member, Academic Council Committee for Academic Computing and Information Systems (C-ACIS), Stanford U. (1987 - 1988)
- Member, Academic Council Committee for Academic Computing and Information Systems (C-ACIS), Stanford U. (1988 - 1989)
- Member, Dean of Research's Subcommittee on Indirect Costs Recovery, Stanford University (1989 - 1990)
- Member, Academic Council Committee on Undergraduate Admissions and Financial Aid (C-UAFA), Stanford U. (1990 - 1991)
- Member, Academic Council Committee on Undergraduate Admissions and Financial Aid (C-UAFA), Stanford U. (1991 - 1992)
- Member, Senate of Academic Council, Stanford University (1991 - 1992)
- Member, Senate of Academic Council, Stanford University (2007 - 2008)
- Member, Senate of Academic Council, Stanford University (2010 - 2011)
- Member, Senate of Academic Council, Stanford University (2011 - 2012)

- Member, Steering Committee for Senate of Academic Council, Stanford University (2011 - 2012)
- Member, H & S Advisory Committee on Study of Undergraduate Education, Stanford University (1993 - 1994)
- Member, H & S Advisory Committee on the Curriculum, Stanford University (1994 - 1995)
- Member, H & S Advisory Committee on the Curriculum, Stanford University (1995 - 1996)
- Member, Stanford University Science & Engineering Quad Teaching Facility Committee, Stanford University (1994 - 1995)
- Member, Stanford University Science & Engineering Quad Teaching Facility Committee, Stanford University (1995 - 1996)
- Member, H & S Appointments and Promotions Advisory Committee, Stanford University (1998 - 2000)
- Member, H & S Needs Assessment Committee, Stanford University (2001 - 2001)
- Chair, Chair Physics/Astrophysics Building Committee, Stanford University (2003 - 2006)
- Member, Sigma Pi Sigma, Physics Honor Society
- Associate Membership (predoctoral), Sigma Xi

## PROFESSIONAL EDUCATION

- Ph.D., Stanford University , Physics (1975)
- B.S, University of Virginia , Physics (1968)

## PATENTS

- Kent D Irwin, Blas Cabrera. "United States Patent 5,641,961 Application of Electrothermal Feedback for High-Resolution Cryogenic Particle Detection Using a Transition-Edge Sensor", Stanford University
- Sae Woo Nam, Blas Cabrera. "United States Patent 6,211,519 Enhanced Electrothermal Feedback for Increased Counting Rate with High Resolution Cryogenic Particle Detectors", Stanford University

## Teaching

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### COURSES

#### 2022-23

- Advanced Physics Laboratory: Project: PHYSICS 108 (Spr)

### STANFORD ADVISEES

#### Doctoral (Program)

Hunter Swan

## Publications

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### PUBLICATIONS

- **Quasiparticle Transport in Thick Aluminum Films Coupled to Tungsten Transition Edge Sensors** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Yen, J. J., Kreikebaum, J. M., Young, B. A., Cabrera, B., Moffatt, R., Redl, P., Shank, B., Brink, P. L., Cherry, M., Tomada, A.  
2016; 184 (1-2): 30-37
- **New Results from the Search for Low-Mass Weakly Interacting Massive Particles with the CDMS Low Ionization Threshold Experiment** *PHYSICAL REVIEW LETTERS*  
Agnese, R., Anderson, A. J., Aramaki, T., Asai, M., Baker, W., Balakishiyeva, D., Barker, D., Thakur, R. B., Bauer, D. A., Billard, J., Borgland, A., BOWLES, M. A., Brink, et al  
2016; 116 (7)
- **Imaging the oblique propagation of electrons in germanium crystals at low temperature and low electric field** *APPLIED PHYSICS LETTERS*  
Moffatt, R. A., Cabrera, B., Corcoran, B. M., Kreikebaum, J. M., Redl, P., Shank, B., YEN, J. J., Young, B. A., Brink, P. L., Cherry, M., Tomada, A., Phipps, A., Sadoulet, et al

2016; 108 (2)

- **Improved WIMP-search reach of the CDMS II germanium data** *PHYSICAL REVIEW D*  
Agnese, R., Anderson, A. J., Asai, M., Balakishiyeva, D., Barker, D., Thakur, R. B., Bauer, D. A., Billard, J., Borgland, A., BOWLES, M. A., Brandt, D., Brink, P. L., Bunker, et al  
2015; 92 (7)
- **Dark matter effective field theory scattering in direct detection experiments** *PHYSICAL REVIEW D*  
Schneck, K., Cabrera, B., Cerdeno, D. G., Mandic, V., Rogers, H. E., Agnese, R., Anderson, A. J., Asai, M., Balakishiyeva, D., Barker, D., Thakur, R. B., Bauer, D. A., Billard, et al  
2015; 91 (9)
- **Maximum likelihood analysis of low energy CDMS II germanium data** *PHYSICAL REVIEW D*  
Agnese, R., Anderson, A. J., Balakishiyeva, D., Thakur, R. B., Bauer, D. A., Billard, J., Borgland, A., BOWLES, M. A., Brandt, D., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, et al  
2015; 91 (5)
- **First direct limits on lightly ionizing particles with electric charge less than  $e/6$ .** *Physical review letters*  
Agnese, R., Anderson, A. J., Balakishiyeva, D., Basu Thakur, R., Bauer, D. A., Billard, J., Borgland, A., BOWLES, M. A., Brandt, D., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, et al  
2015; 114 (11): 111302-?
- **First Direct Limits on Lightly Ionizing Particles with Electric Charge Less than  $e/6$**  *PHYSICAL REVIEW LETTERS*  
Agnese, R., Anderson, A. J., Balakishiyeva, D., Thakur, R. B., Bauer, D. A., Billard, J., Borgland, A., BOWLES, M. A., Brandt, D., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, et al  
2015; 114 (11)
- **Confocal sputtering of conformal alpha-beta phase W films on etched Al features** *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B*  
Kreikebaum, J. M., Cabrera, B., Yen, J. J., Brink, P. L., Cherry, M., Tomada, A., Young, B. A.  
2015; 33 (1)
- **Nonlinear optimal filter technique for analyzing energy depositions in TES sensors driven into saturation** *AIP ADVANCES*  
Shank, B., YEN, J. J., Cabrera, B., Kreikebaum, J. M., Moffatt, R., Redl, P., Young, B. A., Brink, P. L., Cherry, M., Tomada, A.  
2014; 4 (11)
- **Measurement of quasiparticle transport in aluminum films using tungsten transition-edge sensors** *APPLIED PHYSICS LETTERS*  
Yen, J. J., Shank, B., Young, B. A., Cabrera, B., Brink, P. L., Cherry, M., Kreikebaum, J. M., Moffatt, R., Redl, P., Tomada, A., Tortorici, E. C.  
2014; 105 (16)
- **Geant4 Simulations of the SuperCDMS iZIP Detector Charge Carrier Propagation and FET Readout** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Agnese, R., Brandt, D., Asai, M., Cabrera, B., Leman, S., McCarthy, K., Redl, P., Saab, T., Wright, D.  
2014; 176 (5-6): 930-936
- **Spatial Imaging of Charge Transport in Germanium at Low Temperature** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Moffatt, R. A., Cabrera, B., Kadribasic, F., Redl, P., Shank, B., Young, B. A., Brandt, D., Brink, P., Cherry, M., Tomada, A.  
2014; 176 (5-6): 943-951
- **Charge Transport Asymmetry in Cryogenic High Purity Germanium** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Shank, B., Nagasawa, D. Q., Cabrera, B., Cherry, M., Young, B. A.  
2014; 176 (3-4): 148-154
- **Detector Fabrication Yield for SuperCDMS Soudan** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Brink, P. L., Anderson, A. J., Balakishiyeva, D., Bauer, D. A., Beaty, J., Brandt, D., Cabrera, B., Chagani, H., Cherry, M., Cooley, J., do Couto e Silva, E., Cushman, P., Daal, et al  
2014; 176 (3-4): 194-200
- **Quasiparticle Diffusion in Al Films Coupled to Tungsten Transition Edge Sensors** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Yen, J. J., Young, B. A., Cabrera, B., Brink, P. L., Cherry, M., Moffatt, R., Pyle, M., Redl, P., Tomada, A., Tortorici, E. C.  
2014; 176 (3-4): 168-175

- **Identifying Gene-Environment Interactions in Schizophrenia: Contemporary Challenges for Integrated, Large-scale Investigations** *SCHIZOPHRENIA BULLETIN*  
van Os, J., Rutten, B. P., Myin-Germeys, I., Delespaul, P., Viechtbauer, W., van Zelst, C., Bruggeman, R., Reininghaus, U., Morgan, C., Murray, R. M., Di Forti, M., McGuire, P., Valmaggia, et al  
2014; 40 (4): 729-736
- **Search for Low-Mass Weakly Interacting Massive Particles with SuperCDMS** *PHYSICAL REVIEW LETTERS*  
Agnese, R., Anderson, A. J., Asai, M., Balakishiyeva, D., Thakur, R. B., Bauer, D. A., Beaty, J., Billard, J., Borgland, A., BOWLES, M. A., Brandt, D., Brink, P. L., Bunker, et al  
2014; 112 (24)
- **Search for low-mass weakly interacting massive particles with SuperCDMS.** *Physical review letters*  
Agnese, R., Anderson, A. J., Asai, M., Balakishiyeva, D., Basu Thakur, R., Bauer, D. A., Beaty, J., Billard, J., Borgland, A., BOWLES, M. A., Brandt, D., Brink, P. L., Bunker, et al  
2014; 112 (24): 241302-?
- **Search for low-mass weakly interacting massive particles using voltage-assisted calorimetric ionization detection in the SuperCDMS experiment.** *Physical review letters*  
Agnese, R., Anderson, A. J., Asai, M., Balakishiyeva, D., Basu Thakur, R., Bauer, D. A., Billard, J., Borgland, A., BOWLES, M. A., Brandt, D., Brink, P. L., Bunker, R., Cabrera, et al  
2014; 112 (4): 041302-?
- **Search for Low-Mass Weakly Interacting Massive Particles Using Voltage-Assisted Calorimetric Ionization Detection in the SuperCDMS Experiment** *PHYSICAL REVIEW LETTERS*  
Agnese, R., Anderson, A. J., Asai, M., Balakishiyeva, D., Thakur, R. B., Bauer, D. A., Billard, J., Borgland, A., BOWLES, M. A., Brandt, D., Brink, P. L., Bunker, R., Cabrera, et al  
2014; 112 (4)
- **Silicon Detector Dark Matter Results from the Final Exposure of CDMS II** *PHYSICAL REVIEW LETTERS*  
Agnese, R., Ahmed, Z., Anderson, A. J., Arrenberg, S., Balakishiyeva, D., Thakur, R. B., Bauer, D. A., Billard, J., Borgland, A., Brandt, D., Brink, P. L., Bruch, T., Bunker, et al  
2013; 111 (25)
- **Demonstration of surface electron rejection with interleaved germanium detectors for dark matter searches** *APPLIED PHYSICS LETTERS*  
Agnese, R., Anderson, A. J., Balakishiyeva, D., Thakur, R. B., Bauer, D. A., Borgland, A., Brandt, D., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Cerdeno, D. G., Chagani, et al  
2013; 103 (16)
- **Silicon detector results from the first five-tower run of CDMS II** *PHYSICAL REVIEW D*  
Agnese, R., Ahmed, Z., Anderson, A. J., Arrenberg, S., Balakishiyeva, D., Thakur, R. B., Bauer, D. A., Borgland, A., Brandt, D., Brink, P. L., Bruch, T., Bunker, R., Cabrera, et al  
2013; 88 (3)
- **SuperCDMS Status from Soudan and Plans for SNOLab** *Workshop on Dark Matter, Unification and Neutrino Physics (CETUP)*  
Sander, J., Ahmed, Z., Anderson, A. J., Arrenberg, S., Balakishiyeva, D., Thakur, R. B., Bauer, D. A., Brandt, D., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Cerdeno, et al  
AMER INST PHYSICS.2013: 129-135
- **Ionization Measurements of SuperCDMS SNOLAB 100 mm Diameter Germanium Crystals** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Chagani, H., Bauer, D. A., Brandt, D., Brink, P. L., Cabrera, B., Cherry, M., do Couto e Silva, E., Godfrey, G. G., Hall, J., Hansen, S., Hasi, J., Kelsey, M., Kenney, et al  
2012; 167 (5-6): 1125-1130
- **Results and Prospects for the Cryogenic Dark Matter Search (CDMS) Experiment** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Serfass, B.  
2012; 167 (5-6): 1119-1124
- **SuperCDMS Cold Hardware Design** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Al Kenany, S., Rolla, J. A., Godfrey, G., Brink, P. L., Seitz, D. N., Figueroa-Feliciano, E., Huber, M. E., Hines, B. A., Irwin, K. D.  
2012; 167 (5-6): 1167-1172

- **Phonon Pulse Shape Discrimination in SuperCDMS Soudan** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Hertel, S. A., Pyle, M.  
2012; 167 (5-6): 1173-1178
- **Conceptual Design for SuperCDMS SNOLAB** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Brink, P. L.  
2012; 167 (5-6): 1093-1098
- **Optically Induced Measurement of Electron and Hole Drift Velocities in a Germanium < 100 > CDMS Detector at 50 mK** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Phipps, A., Sundqvist, K. M., Lam, A., Sadoulet, B.  
2012; 167 (5-6): 1112-1118
- **Using SQUIDS to Detect Charge in Cryogenic Germanium Detectors** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Moffatt, R. A., Cabrera, B., Kadribasic, F., Pyle, M., Wesenberg, D., YEN, J. J., Young, B. A.  
2012; 167 (5-6): 638-644
- **Validation of Phonon Physics in the CDMS Detector Monte Carlo** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
McCarthy, K. A., Leman, S. W., Anderson, A., Brandt, D., Brink, P. L., Cabrera, B., Cherry, M., do Couto e Silva, E., Cushman, P., Doughty, T., Figueroa-Feliciano, E., Kim, P., Mirabolfathi, et al  
2012; 167 (5-6): 1160-1166
- **Experimental Characterization of Space Charge in IZIP Detectors** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Doughty, T., Pyle, M., Mirabolfathi, N., Serfass, B., Kamaev, O., Hertel, S., Leman, S. W., Brink, P., Cabrera, B., Sadoulet, B.  
2012; 167 (5-6): 1087-1092
- **Low-Mass WIMP Sensitivity and Statistical Discrimination of Electron and Nuclear Recoils by Varying Luke-Neganov Phonon Gain in Semiconductor Detectors** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Pyle, M., Bauer, D. A., Cabrera, B., Hall, J., Schnee, R. W., Thakur, R. B., Yellin, S.  
2012; 167 (5-6): 1081-1086
- **Comparison of CDMS [100] and [111] Oriented Germanium Detectors** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Leman, S. W., Hertel, S. A., Kim, P., Cabrera, B., do Couto e Silva, E., Figueroa-Feliciano, E., McCarthy, K. A., Resch, R., Sadoulet, B., Sundqvist, K. M.  
2012; 167 (5-6): 1106-1111
- **Time Evolution of Electric Fields in CDMS Detectors** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Leman, S. W., Brandt, D., Brink, P. L., Cabrera, B., Chagani, H., Cherry, M., Cushman, P., do Couto e Silva, E., Doughty, T., Figueroa-Feliciano, E., Mandic, V., McCarthy, K. A., Mirabolfathi, et al  
2012; 167 (5-6): 1099-1105
- **Monte Carlo Simulation of Massive Absorbers for Cryogenic Calorimeters** *14th International Workshop on Low Temperature Particle Detection (LTD)*  
Brandt, D., Asai, M., Brink, P. L., Cabrera, B., do Couto e Silva, E., Kelsey, M., Leman, S. W., McCarthy, K., Resch, R., Wright, D., Figueroa-Feliciano, E.  
SPRINGER/PLENUM PUBLISHERS.2012: 485-90
- **Simulations of Noise in Phase-Separated Transition-Edge Sensors for SuperCDMS** *14th International Workshop on Low Temperature Particle Detection (LTD)*  
Anderson, A. J., Leman, S. W., Pyle, M., Figueroa-Feliciano, E., McCarthy, K., Doughty, T., Cherry, M., Young, B.  
SPRINGER/PLENUM PUBLISHERS.2012: 135-40
- **Temperature Dependent I-V and Resistance Characterization of SuperCDMS Germanium Crystals** *14th International Workshop on Low Temperature Particle Detection (LTD)*  
Shank, B., Nagasawa, D. Q., YEN, J. J., Cherry, M., Young, B. A.  
SPRINGER/PLENUM PUBLISHERS.2012: 202-7
- **Monte Carlo comparisons to a cryogenic dark matter search detector with low transition-edge-sensor transition temperature** *JOURNAL OF APPLIED PHYSICS*  
Leman, S. W., McCarthy, K. A., Brink, P. L., Cabrera, B., Cherry, M., Do Couto, E. S., Figueroa-Feliciano, E., Kim, P., Mirabolfathi, N., Pyle, M., Resch, R., Sadoulet, B., Serfass, et al

2011; 110 (9)

- **Combined limits on WIMPs from the CDMS and EDELWEISS experiments** *PHYSICAL REVIEW D*  
Ahmed, Z., Akerib, D. S., Armengaud, E., Arrenberg, S., Augier, C., Bailey, C. N., Balakishiyeva, D., Baudis, L., Bauer, D. A., Benoit, A., Berge, L., Bluemer, J., Brink, et al  
2011; 84 (1)
- **Combined limits on WIMPs from the CDMS and EDELWEISS experiments** *PHYSICAL REVIEW D*  
Ahmed, Z., Akerib, D. S., Armengaud, E., Arrenberg, S., Augier, C., Bailey, C. N., Balakishiyeva, D., Baudis, L., Bauer, D. A., Benoit, A., Berge, L., Bluemer, J., Brink, et al  
2011; 84 (1)
- **Search for inelastic dark matter with the CDMS II experiment** *PHYSICAL REVIEW D*  
Ahmed, Z., Akerib, D. S., Arrenberg, S., Bailey, C. N., Balakishiyeva, D., Baudis, L., Bauer, D. A., Brink, P. L., Bruch, T., Bunker, R., Cabrera, B., Caldwell, D. O., Cooley, et al  
2011; 83 (11)
- **Results from a Low-Energy Analysis of the CDMS II Germanium Data** *PHYSICAL REVIEW LETTERS*  
Ahmed, Z., Akerib, D. S., Arrenberg, S., Bailey, C. N., Balakishiyeva, D., Baudis, L., Bauer, D. A., Brink, P. L., Bruch, T., Bunker, R., Cabrera, B., Caldwell, D. O., Cooley, et al  
2011; 106 (13)
- **Phonon Quasidiffusion in Cryogenic Dark Matter Search Large Germanium Detectors** *CHINESE JOURNAL OF PHYSICS*  
Leman, S. W., Cabrera, B., McCarthy, K. A., Pyle, M., Resch, R., Sadoulet, B., Sundqvist, K. M., Brink, P. L., Silva, E. d., Figueroa-Feliciano, E., Mirabolfathi, N., Serfass, B., Tomada, et al  
2011; 49 (1): 349-358
- **Low-threshold analysis of CDMS shallow-site data** *PHYSICAL REVIEW D*  
Akerib, D. S., Attisha, M. J., Baudis, L., Bauer, D. A., Bolozdynya, A. I., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Clarke, R. M., Cooley, J., Crisler, et al  
2010; 82 (12)
- **Dark Matter Search Results from the CDMS II Experiment** *SCIENCE*  
Ahmed, Z., Akerib, D. S., Arrenberg, S., Bailey, C. N., Balakishiyeva, D., Baudis, L., Bauer, D. A., Brink, P. L., Bruch, T., Bunker, R., Cabrera, B., Caldwell, D. O., Cooley, et al  
2010; 327 (5973): 1619-1621
- **Analysis of the low-energy electron-recoil spectrum of the CDMS experiment** *PHYSICAL REVIEW D*  
Ahmed, Z., Akerib, D. S., Arrenberg, S., Bailey, C. N., Balakishiyeva, D., Baudis, L., Bauer, D. A., Beaty, J., Brink, P. L., Bruch, T., Bunker, R., Cabrera, B., Caldwell, et al  
2010; 81 (4)
- **Search for Axions with the CDMS Experiment** *PHYSICAL REVIEW LETTERS*  
Ahmed, Z., Akerib, D. S., Arrenberg, S., Bailey, C. N., Balakishiyeva, D., Baudis, L., Bauer, D. A., Beaty, J., Brink, P. L., Bruch, T., Bunker, R., Cabrera, B., Caldwell, et al  
2009; 103 (14)
- **Search for Weakly Interacting Massive Particles with the First Five-Tower Data from the Cryogenic Dark Matter Search at the Soudan Underground Laboratory** *PHYSICAL REVIEW LETTERS*  
Ahmed, Z., Akerib, D. S., Arrenberg, S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Beaty, J., Brink, P. L., Bruch, T., Bunker, R., Burke, S., Cabrera, et al  
2009; 102 (1)
- **The Cryogenic Dark Matter Search (CDMS) : Present Status and Future** *10th Conference on the Intersections of Particle and Nuclear Physics*  
Brink, P. L., Ahmed, Z., Akerib, D. S., Bailey, C. N., Balakishiyeva, D., Bauer, D. A., Beaty, J., Bunker, R., Cabrera, B., Caldwell, D. O., Cooley, J., do Couto e Silva, E., Cushman, et al  
AMER INST PHYSICS.2009: 260-263
- **SuperCDMS Detector Readout Cryogenic Hardware** *13th International Workshop on Low Temperature Detectors*  
Seitz, D. N., Ahmed, Z., Akerib, D. S., Arrenberg, S., Bailey, C. N., Balakishiyeva, D., Baudis, L., Bauer, D. A., Beaty, J., Brink, P. L., Bruch, T., Bunker, R., Cabrera, et al  
AMER INST PHYSICS.2009: 282-285

- **Bulk and Surface Charge Collection: CDMS Detector Performance and Design Implications** *13th International Workshop on Low Temperature Detectors*  
Bailey, C. N., Ahmed, Z., Akerib, D. S., Arrenberg, S., Balakishiyeva, D., Baudis, L., Bauer, D. A., Beaty, J., Brink, P. L., Bruch, T., Bunker, R., Cabrera, B., Caldwell, et al  
AMER INST PHYSICS.2009: 643–646
- **The Cryogenic Dark Matter Search (CDMS) experiment: Results, status and perspective** *13th International Workshop on Low Temperature Detectors*  
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