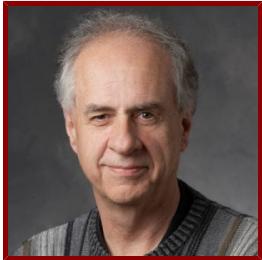


# Stanford

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## Blas Cabrera

Stanley G. Wojcicki Professor  
Physics

Curriculum Vitae available Online

### CONTACT INFORMATION

- **Administrative Contact**

Sha Zhang

**Email** [shazhang@stanford.edu](mailto:shazhang@stanford.edu)

### 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

- Professor, 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)

#### 2020-21

- Electricity and Magnetism: PHYSICS 43 (Win)

### STANFORD ADVISEES

#### Doctoral (Program)

Erik Kountz, 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., McArthy, 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*  
Mirabolfathi, 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: 623–626
  - **Contact-Free Germanium Ionization and Phonon Detectors** *13th International Workshop on Low Temperature Detectors*  
Mirabolfathi, N., YEN, J. J., Brink, P. L., Cabrera, B., Daal, M., Serfass, B., Sadoulet, B., Seitz, D. N., Sundqvist, K. M., Tomada, A.  
AMER INST PHYSICS.2009: 647–650
  - **A Measurement of Electron and Hole Drift Velocities in a Germanium < 100 > CDMS Detector, at a Temperature of 31 milliKelvin** *13th International Workshop on Low Temperature Detectors*  
Sundqvist, K. M., Phipps, A. T., Bailey, C. N., Brink, P. L., Cabrera, B., Daal, M., Lam, A. C., Mirabolfathi, N., Novak, L., Pyle, M., Sadoulet, B., Serfass, B., Seitz, et al  
AMER INST PHYSICS.2009: 128–131
  - **Characterization of SuperCDMS 1-inch Ge Detectors** *13th International Workshop on Low Temperature Detectors*  
Ahmed, Z., Akerib, D. S., Bailey, C. N., Balakishiyeva, D., Bauer, D. A., Beaty, J., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Clark, K., Cooley, J., Cushman, et al  
AMER INST PHYSICS.2009: 659–662
  - **Surface Electron Rejection from Ge Detector with Interleaved Charge and Phonon Channels** *13th International Workshop on Low Temperature Detectors*  
Pyle, M., Serfass, B., Brink, P. L., Cabrera, B., Cherry, M., Mirabolfathi, N., Novak, L., Sadoulet, B., Seitz, D., Sundqvist, K. M., Tomada, A., YEN, J. J., Young, et al  
AMER INST PHYSICS.2009: 223–226
  - **Phase Separation in Tungsten Transition Edge Sensors** *13th International Workshop on Low Temperature Detectors*  
Hart, S. J., Pyle, M., YEN, J. J., Young, B. A., Brink, P. L., Cabrera, B., Cherry, M., Mirabolfathi, N., Sadoulet, B., Seitz, D., Sundqvist, K., Tomada, A.  
AMER INST PHYSICS.2009: 215–218
  - **SuperCDMS Detector Fabrication Advances** *13th International Workshop on Low Temperature Detectors*  
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: 655–658
  - **The Cryogenic Dark Matter Search (CDMS) experiment: Results and prospects** *25th International Conference on Low Temperature Physics (LT25)*  
Brink, P. L., Ahmed, Z., Akerib, D. S., Bailey, C. N., Bauer, D. A., Beaty, J., Bunker, R., Burke, S., Cabrera, B., Caldwell, D. O., Cooley, J., Cushman, P., DeJongh, et al  
IOP PUBLISHING LTD.2009
  - **Design and performance of a modular low-radioactivity readout system for cryogenic detectors in the CDMS experiment** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*  
Akerib, D. S., Barnes, P. D., Brink, P. L., Cabrera, B., Clarke, R. M., Gaitskill, R. J., Golwala, S. R., Huber, M. E., Kurylowicz, M., Mandic, V., Martinis, J. M., Meunier, P., Mirabolfathi, et al  
2008; 591 (3): 476-489
  - **Status of the cryogenic Dark Matter Search experiment** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Ahmed, Z., Akerib, D. S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Brink, P. L., Brusov, P. P., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Cooley, et al  
2008; 151 (3-4): 800-805
  - **Present status of the SuperCDMS program** *JOURNAL OF LOW TEMPERATURE PHYSICS*  
Akerib, D. S., Bailey, C. N., Bauer, D. A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Cooley, J., Cushman, P., DeJongh, F., Dragowsky, M. R., Duong, L., Figueroa-Feliciano, et al  
2008; 151 (3-4): 818-823
  - **Detector development for the next phases of the cryogenic dark matter search: Results from 1 inch Ge and Si detectors** *12th International Workshop on Low Temperature Detectors*

- Bailey, C. N., Ahmed, Z., Akerib, D. S., Brink, P. L., Cabrera, B., Castle, J. P., Cooley, J., Danowski, M. E., Dragowsky, M. R., Filippini, J., Grant, D. R., Hennings-Yeomans, R., Mirabolfathi, et al  
SPRINGER/PLENUM PUBLISHERS.2008: 211–15
- **Introduction to TES physics** *12th International Workshop on Low Temperature Detectors*  
Cabrera, B.  
SPRINGER/PLENUM PUBLISHERS.2008: 82–93
  - **Phonon-mediated distributed transition-edge-sensor X-ray detector with deep trenches** *12th International Workshop on Low Temperature Detectors*  
Leman, S. W., Brink, P. L., Cabrera, B., Tomada, A., Young, B., Martinez-Galarce, D. S.  
SPRINGER/PLENUM PUBLISHERS.2008: 40–45
  - **New apparatus for detecting micron-scale deviations from Newtonian gravity** *PHYSICAL REVIEW D*  
Weld, D. M., Xia, J., Cabrera, B., Kapitulnik, A.  
2008; 77 (6)
  - **Transition edge cameras for fast optical spectrophotometry** *2nd Galway Conference on High Time Resolution Astrophysics*  
Romani, R. W., Bay, T. J., Burney, J., Cabrera, B.  
SPRINGER.2008: 311–325
  - **CDMS, supersymmetry and extra dimensions** *7th UCLA Symposium on Sources and Detection of Dark Matter and Dark Energy in the Universe*  
Akerib, D. S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Brink, P. L., Brusov, P. P., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Cooley, J., Crisler, et al  
ELSEVIER SCIENCE BV.2007: 95–98
  - **Surface event rejection using phonon information in CDMS** *7th UCLA Symposium on Sources and Detection of Dark Matter and Dark Energy in the Universe*  
Akerib, D. S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Brink, P. L., Brusov, P. P., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Cooley, J., Crisler, et al  
ELSEVIER SCIENCE BV.2007: 137–140
  - **Search for weakly interacting massive particles with CDMS and XENON** *TeV Particle Astrophysics II Workshop 2006*  
Aprile, E., Baudis, L., Cabrera, B.  
IOP PUBLISHING LTD.2007: 58–65
  - **Limits on WIMP-nucleon interactions from the Cryogenic Dark Matter Search at the Soudan Underground Laboratory** *11th International Workshop on Low-Temperature Detectors*  
Akerib, D. S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Brink, P. L., Brusov, P. P., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Cooley, J., Crisler, et al  
ELSEVIER SCIENCE BV.2006: 390–92
  - **Ionization collection in regions of distorted electric field in the CDMS ZIP detector** *11th International Workshop on Low-Temperature Detectors*  
Daal, M., Mirabolfathi, N., Sundqvist, K. M.  
ELSEVIER SCIENCE BV.2006: 408–10
  - **Phonon-mediated distributed transition-edge-sensor X-ray detectors for surveys of galaxy clusters and the warm-hot interstellar medium** *11th International Workshop on Low-Temperature Detectors*  
Leman, S. W., Brink, P. L., Cabrera, B., Castle, J. P., Chakraborty, S., Deiker, S., Kahn, S., Martinez-Galarce, D. S., Stern, R. A., Tomada, A.  
ELSEVIER SCIENCE BV.2006: 488–90
  - **The optical imaging TES detector array: Considerations for a cryogenic imaging instrument** *11th International Workshop on Low-Temperature Detectors*  
Bay, T. J., Burney, J. A., Barral, J., Brink, P. L., Cabrera, B., Castle, J. P., Miller, A. J., Nam, S. W., Romani, R. W., Tomada, A.  
ELSEVIER SCIENCE BV.2006: 506–8
  - **Quasiparticle propagation in aluminum fins and tungsten TES dynamics in the CDMS ZIP detector** *11th International Workshop on Low-Temperature Detectors*  
Pyle, M., Brink, P. L., Cabrera, B., Castle, J. P., Colling, P., Chang, C. L., Cooley, J., Lipus, T., Ogburn, R. W., Young, B. A.  
ELSEVIER SCIENCE BV.2006: 405–7
  - **Transition-edge sensor arrays for UV-optical-IR astrophysics** *11th International Workshop on Low-Temperature Detectors*  
Burney, J., Bay, T. J., Barral, J., Brink, P. L., Cabrera, B., Castle, J. P., Miller, A. J., Nam, S., Rosenberg, D., Romani, R. W., Tomada, A.  
ELSEVIER SCIENCE BV.2006: 525–27

- **Detector commissioning for the CDMS-II final run at the Soudan Underground Laboratory** *11th International Workshop on Low-Temperature Detectors*  
Mirabolfathi, N., Filippini, J. P., Mandic, V., Meunier, P., Sadoulet, B., Seitz, D. N., Serfass, B., Sundqvist, K. M., Akerib, D. S., Bailey, C. N., Brusov, P. P., Dragowsky, M., Schnee, et al  
ELSEVIER SCIENCE BV.2006: 417–19
- **The SuperCDMS proposal for dark matter detection** *11th International Workshop on Low-Temperature Detectors*  
Akerib, D. S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Brink, P. L., Brusov, P. P., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Cooley, J., Crisler, et al  
ELSEVIER SCIENCE BV.2006: 411–13
- **First test runs of a dark-matter detector with interleaved ionization electrodes and phonon sensors for surface-event rejection** *11th International Workshop on Low-Temperature Detectors*  
Brink, P. L., Cabrera, B., Castle, J. P., Cooley, J., Novak, L., Ogburn, R. W., Pyle, M., Ruderman, J., Tomada, A., Young, B. A., Filippini, J., Meunier, P., Mirabolfathi, et al  
ELSEVIER SCIENCE BV.2006: 414–16
- **Characterization, performance, and future advanced analysis of detectors in the cryogenic dark matter search (CDMS-II)** *11th International Workshop on Low-Temperature Detectors*  
Akerib, D. S., Attishab, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Brink, P. L., Brusov, P. P., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Cooley, J., Crisler, et al  
ELSEVIER SCIENCE BV.2006: 387–89
- **Limits on spin-independent interactions of weakly interacting massive particles with nucleons from the two-tower run of the cryogenic dark matter search** *PHYSICAL REVIEW LETTERS*  
Akerib, D. S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Brink, P. L., Brusov, P. P., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Cooley, J., Crisler, et al  
2006; 96 (1)
- **Limits on spin-dependent WIMP-nucleon interactions from the Cryogenic Dark Matter Search** *PHYSICAL REVIEW D*  
Akerib, D. S., Armel-Funkhouser, M. S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Brink, P. L., Brusov, P. P., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Cooley, et al  
2006; 73 (1)
- **Latest results from the CDMS-II Cold Dark Matter search** *24th International Conference on Low Temperature Physics (LT24)*  
Brink, P. L., Akerib, D. S., Armed-Funkhouser, M. S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Crisler, M. B., Cushman, et al  
AMER INST PHYSICS.2006: 1617–1620
- **Exclusion limits on the WIMP-nucleon cross section from the first run of the Cryogenic Dark Matter Search in the Soudan Underground Laboratory** *PHYSICAL REVIEW D*  
Akerib, D. S., Armel-Funkhouser, M. S., Attisha, M. J., Bailey, C. N., Baudis, L., Bauer, D. A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Crisler, M. B., Cushman, et al  
2005; 72 (5)
- **Optical/UV astrophysics applications of cryogenic detectors** *CRYOGENIC PARTICLE DETECTION*  
Cabrera, B., Romani, R. W.  
2005; 99: 417–451
- **CDMS Soudan first results and status** *5th International Workshop on the Identification of Dark Matter*  
Dragowsky, M. R.  
WORLD SCIENTIFIC PUBL CO PTE LTD.2005: 200–205
- **Trapped Flux Readout for an Electrostatically Supported Superconducting Gyroscope** *Proceedings of National Aerospace Meeting*  
Cabrera, B., Keiser, G. M.  
2005: 75
- **First results from the cryogenic dark matter search in the Soudan Underground Laboratory** *PHYSICAL REVIEW LETTERS*  
Akerib, D. S., Alvaro-Dean, J., Armel-Funkhouser, M. S., Attisha, M. J., Baudis, L., Bauer, D. A., Beaty, J., Brink, P. L., Bunker, R., Burke, S. P., Cabrera, B., Caldwell, D. O., Callahan, et al  
2004; 93 (21)

- **Installation and commissioning of the CDMSII experiment at Soudan** *10th International Workshop on Low Temperature Detectors*  
Akerib, D. S., Alvaro-Dean, J., Armel, M. S., Attisha, M., Baudis, L., Bauer, D. A., Bolozdynya, A. I., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Chang, et al  
ELSEVIER SCIENCE BV.2004: 116–19
- **Study of the dead layer in germanium for the CDMS detectors** *10th International Workshop on Low Temperature Detectors*  
Mandic, V., Mirabolfathi, N., Meunier, P., Chang, C. L., Baudis, L., Brink, P. L., Attisha, M. J., Thompson, J. P., Gaitskell, R. J., Schnee, R. W., Serfass, B., Ogburn, R. W., Rau, et al  
ELSEVIER SCIENCE BV.2004: 171–74
- **Development and characterization of a TES optical imaging array for astrophysics applications** *10th International Workshop on Low Temperature Detectors*  
Burney, J., Bay, T. J., Brink, P. L., Cabrera, B., Castle, J. P., Romani, R. W., Tomada, A., Nam, S. W., Miller, A. J., Martinis, J., Wang, E., Kenny, T., Young, et al  
ELSEVIER SCIENCE BV.2004: 533–36
- **Using ion implantation to adjust the transition temperature of superconducting films** *10th International Workshop on Low Temperature Detectors*  
Young, B. A., Williams, J. R., Deiker, S. W., Ruggiero, S. T., Cabrera, B.  
ELSEVIER SCIENCE BV.2004: 307–10
- **The Advanced Technology Solar Spectroscopic Imager - a novel experiment employing a transition-edge sensor to probe the soft X-ray solar corona** *10th International Workshop on Low Temperature Detectors*  
Boerner, P., Martinez-Galarce, D. S., Wamba, K., Cabrera, B., Deiker, S., Irwin, K., Barbee, T. W., Baker, P. C.  
ELSEVIER SCIENCE BV.2004: 372–75
- **Distributed transition-edge sensors for linearized position response in a phonon-mediated X-ray imaging spectrometer** *10th International Workshop on Low Temperature Detectors*  
Cabrera, B., Brink, P. L., Leman, S. W., Castle, J. P., Tomada, A., Young, B. A., Martinez-Galarce, D. S., Stern, R. A., Deiker, S., Irwin, K. D.  
ELSEVIER SCIENCE BV.2004: 502–4
- **Pulse estimation in nonlinear detectors with nonstationary noise** *10th International Workshop on Low Temperature Detectors*  
Fixsen, D. J., MOSELEY, S. H., Cabrera, B., Figueroa-Feliciano, E.  
ELSEVIER SCIENCE BV.2004: 555–58
- **Further results from the CDMS experiment** *10th International Workshop on Low Temperature Detectors*  
Akerib, D. S., Armel, M. S., Attisha, M., Baudis, L., Bauer, D. A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Chang, C. L., Crisler, M. B., Cushman, P., Dixon, et al  
ELSEVIER SCIENCE BV.2004: 105–7
- **Phonon-mediated superconducting transition-edge sensor X-ray detectors for use in astronomy** *Conference on High-Energy Detectors in Astronomy*  
Leman, S. W., Martinez-Galarce, D. S., Brink, P. L., Cabrera, B., Castle, J. P., Morse, K., Stern, R. A., Tomada, A.  
SPIE-INT SOC OPTICAL ENGINEERING.2004: 135–144
- **Progress of CDMS-II at the Soudan Mine** *Proceedings of 22nd Texas Symposium on Relativistic Astrophysics*  
Ogburn IV, R. E., Brink, P. L., Colley, J., Cabrera, B., Chang, C. L., Akerib, D. S., Bailey, C. N., Brusov, P. P., Dragowsky, M. R., Driscoll, D. D., Grant, D. R., Hennings-Yeomans, R., Kamat, et al  
2004: 1–6
- **Installation and Commissioning of the CDMS II Experiment at Soudan** *Proceedings of Tenth International Workshop on Low Temperature Detectors (LTD10)*  
Akerib, D. S., Alvaro-Dean, J., Armel, M. S., Attisha, M. J., Baudis, L., Bauer, D. A., Bolozdynya, A. I., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Chang, et al  
2004: 116–19
- **Beyond the CDMS-II Dark Matter Search: SuperCDMS** *Proceedings of 22nd Texas Symposium on Relativistic Astrophysics*  
Brink, P. L., Cabrera, B., Chang, C. L., Cooley, J., Ogburn, R. W., Akerib, D. S., Bailey, C. N., Busov, P. P., Dragowsky, M. R., Grant, D. R., Hennings-Yeomans, R., Schnee, R. W., Attisha, et al  
2004: 1–6
- **Limits on Spin-Dependent WIMP-Nucleon Interactions from the Cryogenic Dark Matter Search** *22nd Texas Symposium on Relativistic Astrophysics*  
Cabrera, B., Filippini, J.  
2004: 1–6

- **Phonon-mediated superconducting transition-edge sensor X-ray detectors for use in astronomy** *Conference on X-Ray and Gamma-Ray Instrumentation for Astronomy XIII*  
Leman, S. W., Brink, P. L., Cabrera, B., Castle, J. P., Martinez-Galarce, D. S., Stern, R. A., Tomada, A., Young, B. A.  
SPIE-INT SOC OPTICAL ENGINEERING.2004: 565–575
- **New results from the Cryogenic Dark Matter Search experiment** *PHYSICAL REVIEW D*  
Akerib, D. S., Alvaro-Dean, J., Armel, M. S., Attisha, M. J., Baudis, L., Bauer, D. A., Bolozdynya, A. I., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Chang, et al  
2003; 68 (8)
- **Results from the 1998-1999 Runs of the Cryogenic Dark Matter Search** *5th International UCLA Symposium on Sources and Detection of Dark Matter and Dark Energy in the Universe*  
Schnee, R. W., Abrams, D., Akerib, D. S., Armel-Funkhouser, M. S., Baudis, L., Bauer, D. A., Bolozdynya, A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Chang, et al  
ELSEVIER SCIENCE BV.2003: 185–188
- **Present status of the cryogenic dark matter search (CDMS II) experiment** *23rd International Conference on Low Temperature Physics (LT23)*  
Abrams, D., Akerib, D. S., Armel-Funkhouser, M. S., Baudis, L., Bauer, D. A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Chang, C. L., Crisler, M. B., Dixon, et al  
ELSEVIER SCIENCE BV.2003: 1590–1591
- **UV-IR science prospects with TES imaging arrays** *Workshop on Hubbles Science Legacy - Future Optical/Ultraviolet Astronomy from Space*  
Romani, R. W., Burney, J., Brink, P., Cabrera, B., Castle, P., Kenny, T., Wang, E., Young, B., Miller, A. J., Nam, S. W.  
ASTRONOMICAL SOC PACIFIC.2003: 399–402
- **WIMP Exclusion Results from the CDMS Experiment** *Proceedings of International Dark Matter Conference (IDM2002)*,  
Brink, P. L., Baudis, L., Cabrera, B., Castle, J. P., Chang, C., Saab, T., Giatskell, R. J., Thomson, J. P., Akerib, D. S., Driscoll, D., Kamat, S., Parera, T. A., Schnee, et al  
edited by Spooner, N. J., Kudryavsev, V., et al  
2003: 296–301
- **Performance and Background Measurements** *Performance and Background Measurements of the CDMS II Tower I Detectors at the Stanford Underground Facility*  
Cabrera, B., Saab, T.  
edited by Spooner, N. J., Kudryavtsev, V.  
2003: 452–457
- **Development of superconducting transition edge sensors for time and energy resolved single photon counters with application to imaging astronomy** *Conference on Materials for Infrared Detectors III*  
Bay, T. J., Burney, J. A., Brink, P. L., Cabrera, B., Castle, J. P., Romani, R. W., Tomada, A., Young, B. A., Nam, S. W., Miller, A. J., Martinis, J. M., Kenny, T., Wang, et al  
SPIE-INT SOC OPTICAL ENGINEERING.2003: 192–200
- **Exclusion limits on the WIMP-nucleon cross section from the cryogenic dark matter search** *PHYSICAL REVIEW D*  
Abrams, D., Akerib, D. S., Armel-Funkhouser, M. S., Baudis, L., Bauer, D. A., Bolozdynya, A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Chang, C. L., Clarke, et al  
2002; 66 (12)
- **Deployment of the first CDMS II ZIP detectors at the Stanford Underground Facility** *7th International Workshop on Topics in Astroparticle and Underground Physics*  
Saab, T., Abrams, D., Akerib, D., Bauer, D. A., Brink, P. L., Cabrera, B., Castle, J. P., Chang, C., Crisler, M. B., Driscoll, D., Emes, J., Huber, M., Gaitskell, et al  
ELSEVIER SCIENCE BV.2002: 100–102
- **Effect of implanted metal impurities on superconducting tungsten films** *JOURNAL OF APPLIED PHYSICS*  
Young, B. A., Saab, T., Cabrera, B., Miller, A. J., Brink, P. L., Castle, J. P.  
2002; 91 (10): 6516–6519
- **TES spectrophotometers for near IR/optical/UV** *9th International Workshop on Low Temperature Detectors*  
Cabrera, B., Martinis, J. M., Miller, A. J., Nam, S. W., Romani, R.  
AMER INST PHYSICS.2002: 565–570

- **Optimal Fitting of Nonlinear Detector Pulses with Nonstationary Noise** *LTD9, Ninth International Workshop on Low Temperature Detectors*  
Fixsen, D. J., Moseley, S. H., Cabrera, B., Figueroa-Feliciano, E., McCammon, D.  
edited by Porter, F. S., Galezaai, M., Stahle, C. K.  
2002: 339–42
- **Optimal fitting of non-linear detector pulses with nonstationary noise** *9th International Workshop on Low Temperature Detectors*  
FIXSEN, D. J., Moseley, S. H., Cabrera, B., Figueroa-Feliciano, E.  
AMER INST PHYSICS.2002: 339–342
- **Position dependence in the CDMS II ZIP detectors** *9th International Workshop on Low Temperature Detectors*  
Mandic, V., Rau, W., Akerib, D., Brink, P., Cabrera, B., Castle, J. P., Chang, C., Crisler, M. B., Driscoll, D., Emes, J., Gaitskell, R. J., Hellmig, J., Huber, et al  
AMER INST PHYSICS.2002: 509–512
- **Determination of the Tc distribution for 1000 Transition Edge Sensors** *9th International Workshop on Low Temperature Detectors*  
Brink, P. L., Saab, T., Miller, A. J., Young, B. A., Akerib, D. S., Cabrera, B., Castle, J. P., Chang, C., Discroll, D., Emes, J. H., Gaitskell, R. J., Kamat, S., Mandic, et al  
AMER INST PHYSICS.2002: 529–532
- **Superconducting transition-edge sensors for time & energy resolved single-photon counters and for dark matter searches** *International Workshop on Superconducting Nano-Electronics Devices*  
Cabrera, B.  
KLUWER ACADEMIC/PLENUM PUBL.2002: 133–143
- **Demonstration of the CDMS II ZIP technology at a shallow underground site** *9th International Workshop on Low Temperature Detectors*  
Saab, T., Abrams, D., Akerib, D., Bauer, D. A., Brink, P. L., Cabrera, B., Castle, J. P., Chang, C., Crisler, M. B., Driscoll, D., Emes, J., Huber, M., Gaitskell, et al  
AMER INST PHYSICS.2002: 497–500
- **A testing strategy for the mass production of CDMS II detectors** *9th International Workshop on Low Temperature Detectors*  
Driscoll, D., Akerib, D. S., Abrams, D., Bauer, D., Brink, P. L., Cabrera, B., Castle, J. P., Chang, C., Crisler, M. B., Gaitskell, R. J., Hellmig, J., Kamat, S., Mandic, et al  
AMER INST PHYSICS.2002: 533–536
- **Present results and future goals of the Cryogenic Dark Matter Search** *9th International Workshop on Low Temperature Detectors*  
Perera, T. A., Abrams, D., Akerib, D. S., Bauer, D. A., Bolozdynya, A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Chang, C., Clarke, R. M., Crisler, et al  
AMER INST PHYSICS.2002: 485–488
- **Phase-resolved Crab studies with a cryogenic transition-edge sensor spectrophotometer** *ASTROPHYSICAL JOURNAL*  
Romani, R. W., Miller, A. J., Cabrera, B., Nam, S. W., Martinis, J. M.  
2001; 563 (1): 221–228
- **Status of CDMS search for dark matter WIMPs** *20th Texas Symposium on Relativistic Astrophysics*  
Cabrera, B., Abusaidi, R., Akerib, D. S., Barnes, P. D., Bauer, D. A., Bolozdynya, A., Brink, P. L., Bunker, R., Caldwell, D. O., Castle, J. P., Chang, C., Clarke, R. M., Colling, et al  
AMER INST PHYSICS.2001: 107–118
- **Recent results from the Cryogenic Dark Matter Search for weakly interacting massive particles** *4th International Symposium on Sources and Detection of Dark Matter and Dark Energy in the Universe*  
Gaitskell, R. J., Abusaidi, R., Akerib, D. S., Barnes, P. D., Bauer, D. A., Bolozdynya, A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Chang, C., Clarke, R. M., Colling, et al  
SPRINGER-VERLAG BERLIN.2001: 322–332
- **Limits on the WIMP-nucleon cross section from the cryogenic dark matter search** *COSMO-2000. Proceedings of the Fourth International Workshop on Particle Physics and the Early Universe*  
Schnee, R. W., Abusaidi, R., Akerib, D. S., Barnes, P. D., Jr., Bauer, D. A., Bolozdynya, A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Chang, C., et al  
2001: 99–112
- **Results of the Cryogenic Dark Matter Search** *3rd International Conference on Dark Matter in Astro- and Particle Physics (DARK 2000)*  
Schnee, R. W., Abusaidi, R., Akerib, D. S., Barnes, P. D., Bauer, D. A., Bolozdynya, A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Clarke, R. M., Colling, et al

SPRINGER-VERLAG BERLIN.2001: 569–574

● **Exclusion limits on the WIMP-nucleon cross section from the Cryogenic Dark Matter Search** *PHYSICAL REVIEW LETTERS*

Abusaidi, R., Akerib, D. S., Barnes, P. D., Bauer, D. A., Bolozdynya, A., Brink, P. L., Bunker, R., Cabrera, B., Caldwell, D. O., Castle, J. P., Clarke, R. M., Colling, P., Crisler, et al  
2000; 84 (25): 5699-5703

● **Enhanced ballistic phonon production for surface events in cryogenic silicon detector** *APPLIED PHYSICS LETTERS*

Clarke, R. M., Brink, P. L., Cabrera, B., Colling, P., Crisler, M. B., Davies, A. K., Eichblatt, S., Gaitskell, R. J., Hellmig, J., Martinis, J. M., Nam, S. W., Saab, T., Young, et al  
2000; 76 (20): 2958-2960

● **Cryogenic detectors based on superconducting transition-edge sensors for time-energy-resolved single-photon counters and for dark matter searches** *22nd International Conference on Low Temperature Physics*

Cabrera, B., Clarke, R., Miller, A., Nam, S. W., Romani, R., Saab, T., Young, B.  
ELSEVIER SCIENCE BV.2000: 509–14

● **Exclusion limits on the WIMP-nucleon scattering cross-section from the Cryogenic Dark Matter Search** *8th International Workshop on Low-Temperature Detectors (LTD-8)*

Golwala, S. R., Abusaidi, R., Akerib, D. S., Barnes, P. D., Bauer, D. A., Bolozdynya, A., Brink, P., Cabrera, B., Caldwell, D. O., Castle, J. P., Clarke, R. M., Colling, P., Crisler, et al  
ELSEVIER SCIENCE BV.2000: 345–49

● **A solution to the dead-layer problem in ionization and phonon-based dark matter detectors** *8th International Workshop on Low-Temperature Detectors (LTD-8)*

Shutt, T., Emes, J., Haller, E. E., Hellmig, J., Sadoulet, B., Seitz, D., Young, B. A., White, S.  
ELSEVIER SCIENCE BV.2000: 340–44

● **T-c tuning of tungsten transition edge sensors using iron implantation** *8th International Workshop on Low-Temperature Detectors (LTD-8)*

Young, B. A., Saab, T., Cabrera, B., Cross, J. J., Abusaidi, R. A.  
ELSEVIER SCIENCE BV.2000: 296–99

● **Design of QET phonon sensors for the CDMS ZIP detectors** *8th International Workshop on Low-Temperature Detectors (LTD-8)*

Saab, T., Clarke, R. M., Cabrera, B., Abusaidi, R. A., Gaitskell, R.  
ELSEVIER SCIENCE BV.2000: 300–303

● **Design considerations for TES and QET sensors** *8th International Workshop on Low-Temperature Detectors (LTD-8)*

Cabrera, B.  
ELSEVIER SCIENCE BV.2000: 304–7

● **Optimal filter analysis of energy-dependent pulse shapes and its application to TES detectors** *8th International Workshop on Low-Temperature Detectors (LTD-8)*

Figueroa-Feliciano, E., Cabrera, B., Miller, A. J., Powell, S. F., Saab, T., Walker, A. B.  
ELSEVIER SCIENCE BV.2000: 453–56

● **The CDMS II Z-sensitive ionization and phonon germanium detector** *8th International Workshop on Low-Temperature Detectors (LTD-8)*

Hellmig, J., Gaitskell, R. J., Abusaidi, R., Cabrera, B., Clarke, R. M., Emes, J., Nam, S. W., Saab, T., Sadoulet, B., Seitz, D., Young, B. A.  
ELSEVIER SCIENCE BV.2000: 308–11

● **Development of wide-band, time and energy resolving, optical photon detectors with application to imaging astronomy** *8th International Workshop on Low-Temperature Detectors (LTD-8)*

Miller, A. J., Cabrera, B., Romani, R. W., Figueroa-Feliciano, E., Nam, S. W., Clarke, R. M.  
ELSEVIER SCIENCE BV.2000: 445–48

● **Cryogenic IR/Optical/UV fast spectrophotometers for the study of time-variable astronomical sources** *Conference on Infrared Spaceborne Remote Sensing VIII*

Miller, A. J., Cabrera, B., Romani, R. W., Martinis, J., Nam, S. W., Weld, D. M., Castle, P.  
SPIE-INT SOCIETY OPTICAL ENGINEERING.2000: 278–284

● **A sounding rocket mission to study the solar soft X-ray and EUV emission using transition-edge sensor technology** *Conference on X-Ray and Gamma-Ray Instrumentation for Astronomy IX*

Wamba, K., Walker, A. B., Martinez-Galarce, D. S., Nam, S. W., Irwin, K., Deiker, S., Cabrera, B., LESYNA, L., Powell, S. F., Miller, A. J., Robertson, D. W., Boerner, P. F., Baker, et al  
SPIE-INT SOCIETY OPTICAL ENGINEERING.2000: 384–396

● **Measurement of T-c suppression in tungsten using magnetic impurities** *JOURNAL OF APPLIED PHYSICS*

Young, B. A., Saab, T., Cabrera, B., Cross, J. J., Clarke, R. M., Abusaidi, R. A.  
1999; 86 (12): 6975-6978

● **First astronomical application of a cryogenic transition edge sensor spectrophotometer** *ASTROPHYSICAL JOURNAL*

Romani, R. W., Miller, A. J., Cabrera, B., Figueroa-Feliciano, E., Nam, S. W.  
1999; 521 (2): L153-L156

● **A new biasing technique for transition edge sensors with electrothermal feedback** *1998 Applied Superconductivity Conference*

Nam, S. W., Cabrera, B., Colling, P., Clarke, R. M., Figueroa-Feliciano, E., Miller, A. J., Romani, R. W.  
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.1999: 4209–12

● **Transition edge sensors as single photon detectors** *1998 Applied Superconductivity Conference*

Miller, A. J., Cabrera, B., Clarke, R. M., Figueroa-Feliciano, E., Nam, S., Romani, R. W.  
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.1999: 4205–8

● **Wide band observation of the Crab pulsar using a superconducting transition-edge sensor** *Conference on Ultraviolet and X-Ray Detection, Spectroscopy, and Polarimetry III*

Miller, A. J., Cabrera, B., Romania, R. W., Clarke, R. M., Figueroa-Feliciano, E., Nam, S.  
SPIE-INT SOCIETY OPTICAL ENGINEERING.1999: 188–194

● **Results and status of the Cryogenic Dark Matter Search** *6th International Symposium on Particles, Strings and Cosmology*

Schnee, R. W., Akerib, D. S., Bolodyzyna, A., Perera, T. A., Barnes, P. D., Jr, Bauer, D. A., Caldwell, D. O., Nelson, H., Sonnenschein, A. H., Yellin, S.  
1999: 149–156

● **Preliminary limits on the WIMP-nucleon cross section from the Cryogenic Dark Matter Search (CDMS)** *5th International Workshop on Topics in Astroparticle and Underground Physics (TAUP 97)*

Akerib, D. S., Barnes, P. D., Bauer, D. A., Brink, P. L., Cabrera, B., Caldwell, D. O., Clarke, R. M., Da Silva, A., Davies, A. K., Dougherty, B. L., Irwin, K. D., Gaitskell, R. J., Golwala, et al  
ELSEVIER SCIENCE BV.1999: 64–68

● **Results and status of the Cryogenic Dark Matter Search (CDMS)** *Workshop on Primordial Black Holes and Hawking Radiation/3rd International Symposium on Sources and Detection of Dark Matter in the Universe*

Schnee, R. W., Akerib, D. S., Barnes, P. D., Bauer, D. A., Brink, P. L., Cabrera, B., Caldwell, D. O., Clarke, R. M., Colling, P., Crisler, M. B., Dasilva, A., Davies, A. K., Dougherty, et al  
ELSEVIER SCIENCE BV.1998: 283–90

● **Detection of single infrared, optical, and ultraviolet photons using superconducting transition edge sensors** *APPLIED PHYSICS LETTERS*

Cabrera, B., Clarke, R. M., Colling, P., Miller, A. J., Nam, S., Romani, R. W.  
1998; 73 (6): 735-737

● **Status and results from the cryogenic dark matter search (CDMS)** *1st International Conference on Particle Physics Beyond the Standard Model*

Gaitskell, R. J., Akerib, D. S., Barnes, P. D., Bauer, D., Brink, P., Cabrera, B., Caldwell, D. O., Clarke, R. M., Dasilva, A., Davies, A. K., Dougherty, B. L., Emes, J., Golwala, et al  
IOP PUBLISHING LTD.1998: 781–785

● **SQUID based W-Al quasiparticle-trap assisted superconducting transition edge sensor with position resolution** *1996 Applied Superconductivity Conference*

Nam, S. W., Brink, P. L., Cabrera, B., CHUGG, B., Clarke, R. M., Davies, A. K., Young, B. A.  
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.1997: 3430–33

● **Technique for fabricating tungsten thin film sensors with T-c <=100 mK on germanium and silicon substrates** *1996 Applied Superconductivity Conference*

Young, B. A., Nam, S. W., Brink, P. L., Cabrera, B., CHUGG, B., Clarke, R. M., Davies, A. K., Irwin, K. D.  
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.1997: 3367–70

● **Operation of an Improved100 g Si FLIP detector for the CDMS experiment** *Proceedings of the Seventh International Workshop on Low Temperature Detectors (LTD-7)*

Clarke, R. M., Brink, P. L., Nam, S. W., Davies, A. K., Chugg, B., Young, B. A., Cabrera, B.

1997: 229–231

- **A 100 Gram Si Detector with Fast Phonon and Ionization Sensors for CDMS Experiment** *International Workshop on the Identification of Dark Matter, Sheffield*

Cabrella, B., Brink, P. L., Chugg, B., Clarke, R. M., Davies, A. K., Nam, S. W., Young, B. A.  
edited by Spooner, N. C.  
World Scientific, New Jersey. 1997: 353–361

- **Status and Results from the Cryogenic Dark Matter Search (CDMS)** *Proceedings of the Seventh International Workshop on Low Temperature Detectors (LTD-7)*

Nam, S. W., Akerib, D. S., Barnes, P. D., Jr., J., Bauer, D., Brink, P., Cabrera, B., Caldwell, D. O., Chugg, B., Clarke, R. M., DaSilva, A., Davies, A. K., Dougherty, et al  
1997: 217–220

- **The cryogenic dark matter search (CDMS)** *NATO Advanced Study Institute on the 3rd Erice School on Particle Astrophysics - Generation of Large-Scale Cosmological Structure*

Sonnenschein, A., Bauer, D., Caldwell, D. O., Hale, D., Yellin, S., Barnes, P. D., Dasilva, A., Gaitskell, R. J., Golwala, S. R., Ross, R. R., Sadoulet, B., Seitz, D., Shutt, et al  
KLUWER ACADEMIC PUBL. 1997: 311–316

- **Performance of first 100 g Si FLIP detector in the CDMS experiment** *Proceedings of the Seventh International Workshop on Low Temperature Detectors (LTD-7)*

Davies, A. K., Brink, P. L., Clarkes, R. M., Nam, s. W., Young, B. A., Cabrera, B.  
1997: 227–228

- **The Cryogenic Dark Matter Search (CDMS) Experiment** *International Workshop on the Identification of Dark Matter, Sheffield*

Gaitskell, R. J., Barnes, P. D., Jr, J., DaSilva, A., Golwala, S. R., Jochum, J., Ross, R. R., Sadoulet, B., Seitz, D., Shutt, T., Smith, G., Stockwell, W., Therrien, et al  
edited by Spooner, N. J., et al  
World Scientific, New Jersey. 1997: 440–447

- **Progress of the cryogenic dark matter search (CDMS) experiment.** *2nd Symposium on Dark Matter in the Universe*

Shutt, T., Akerib, D. S., Barnes, P. D., Bauer, D., Brink, P., Cabrera, B., Caldwell, D. O., CHUGG, B., Clarke, R. M., Dasilva, A., DAVIES, A., Dougherty, B. L., Emes, et al  
ELSEVIER SCIENCE BV. 1996: 318–322

- **Low temperature detectors for dark matter searches** *2nd Symposium on Dark Matter in the Universe*

Cabrera, B., Brink, P. L., Clarke, R. M., CHUGG, B., Davies, A. K., Nam, S. W., Young, B. A.  
ELSEVIER SCIENCE BV. 1996: 294–303

- **A superconducting bolometer with strong electrothermal feedback** *APPLIED PHYSICS LETTERS*

Lee, A. T., Richards, P. L., Nam, S. W., Cabrera, B., Irwin, K. D.  
1996; 69 (12): 1801-1803

- **Measurements of the ballistic-phonon component resulting from nuclear and electron recoils in crystalline silicon** *PHYSICAL REVIEW B*

Lee, A. T., Cabrera, B., Dougherty, B. L., Penn, M. J., Pronko, J. G., Tamura, S.  
1996; 54 (5): 3244-3256

- **Charge collection and trapping in low-temperature silicon detectors** *JOURNAL OF APPLIED PHYSICS*

Penn, M. J., Dougherty, B. L., Cabrera, B., Clarke, R. M., Young, B. A.  
1996; 79 (11): 8179-8186

- **Advances in Stanford phonon-mediated elementary particle detectors** *4th International Conference on Phonon Physics/8th International Conference on Phonon Scattering in Condensed Matter (PHONONS 95)*

Cabrera, B., Brink, P. L., CHUGG, B., Dougherty, B. L., Irwin, K. D., Nam, S. W., Lee, A. T., Pronko, J. G., Tamura, S., Young, B. A.  
ELSEVIER SCIENCE BV. 1996: 744–747

- **A hot-electron microcalorimeter for X-ray detection using a superconducting transition edge sensor with electrothermal feedback** *6th International Workshop on Low Temperature Detectors (LTD6)*

Irwin, K. D., Hilton, G. C., Martinis, J. M., Cabrera, B.  
ELSEVIER SCIENCE BV. 1996: 177–79

- **Charge-collection and trapping effects in cryogenic silicon detectors** *6th International Workshop on Low Temperature Detectors (LTD6)*  
Penn, M. J., Dougherty, B. L., Cabrera, B., Young, B. A.  
ELSEVIER SCIENCE BV.1996: 215–17
- **Bolometric sensors for elementary particle detectors** *6th International Workshop on Low Temperature Detectors (LTD6)*  
Cabrera, B.  
ELSEVIER SCIENCE BV.1996: 150–56
- **Installation of the Cryogenic Dark Matter Search (CDMS)** *6th International Workshop on Low Temperature Detectors (LTD6)*  
Barnes, P. D., Dasilva, A., Akerib, D. S., Bauer, D., Brink, P., Cabrera, B., Caldwell, D. O., CHUGG, B., Clarke, R. M., Cummings, A., DAVIES, A., Diaz, R. C., Dougherty, et al  
ELSEVIER SCIENCE BV.1996: 233–36
- **The use of SiO<sub>2</sub> sublayers beneath titanium transition edge sensors for the purpose of phonon spectroscopy** *6th International Workshop on Low Temperature Detectors (LTD6)*  
Dumas, T., Neuhauser, B., Cabrera, B., Clarke, R. M., Nam, S. W., Penn, M. J.  
ELSEVIER SCIENCE BV.1996: 183–86
- **SQUID based W-Al quasiparticle trapping assisted transition edge sensor** *6th International Workshop on Low Temperature Detectors (LTD6)*  
Nam, S. W., Cabrera, B., CHUGG, B., Clarke, R. M., Fertig, C., Irwin, K. D., Young, B. A.  
ELSEVIER SCIENCE BV.1996: 187–89
- **Development of 100 g Si and 250 g Ge detectors for a dark matter search** *21st International Conference on Low Temperature Physics (LT 21)*  
Brink, P. L., Cabrera, B., CHUGG, B., Clarke, R. M., DAVIES, A., Nam, S. W., Young, B. A.  
INST PHYSICS ACAD SCI CZECH REPUBLIC.1996: 2887–2888
- **Status of the Cryogenic Dark Matter Search** *Proceedings of the Second International Workshop on the Dark Side of the Universe: Experimental Efforts and Theoretical Framework*  
DaSilva, A., Akerib, D. S., Barnes, P. D., Jr, Bauer, D., Brink, P. L., Cabrera, B., Caldwell, D. O., Chugg, B., Clarkes, R. M., Davies, A., Dougherty, B. L., Emes, J., et al  
1996: 187–191
- **Low-temperature particle detectors** *ANNUAL REVIEW OF NUCLEAR AND PARTICLE SCIENCE*  
Booth, N. E., Cabrera, B., Fiorini, E.  
1996; 46: 471-532
- **Dark matter searches for monopoles and WIMP's** *NATO Advanced Research Workshop on the History of Original Ideas and Basic Discoveries in Particle Physics*  
Cabrera, B.  
PLENUM PRESS DIV PLENUM PUBLISHING CORP.1996: 901–933
- **A QUASI-PARTICLE-TRAP-ASSISTED TRANSITION-EDGE SENSOR FOR PHONON-MEDIATED PARTICLE-DETECTION** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
Irwin, K. D., Nam, S. W., Cabrera, B., CHUGG, B., Young, B. A.  
1995; 66 (11): 5322-5326
- **SIMULTANEOUS MEASUREMENT OF PHONONS AND IONIZATION USING SILICON CRYSTAL ACOUSTIC DETECTORS** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*  
Penn, M. J., Dougherty, B. L., Cabrera, B., Sisson, D. L.  
1995; 364 (1): 118-123
- **IMPROVED DESIGN OF AN OPTICALLY SWITCHED INDUCTANCE MODULATION CIRCUIT FOR NOISE-REDUCTION IN SQUID SYSTEMS** *1994 Applied Superconductivity Conference*  
Park, G. S., Nam, S. W., Cabrera, B., Huber, M. E.  
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.1995: 3214–17
- **A SELF-BIASING CRYOGENIC PARTICLE DETECTOR UTILIZING ELECTROTHERMAL FEEDBACK AND A SQUID READOUT** *1994 Applied Superconductivity Conference*  
Irwin, K. D., Nam, S. W., Cabrera, B., CHUGG, B., Park, G. S., WELTY, R. P., Martinis, J. M.  
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.1995: 2690–93

- **AN APPLICATION OF ELECTROTHERMAL FEEDBACK FOR HIGH-RESOLUTION CRYOGENIC PARTICLE-DETECTION** *APPLIED PHYSICS LETTERS*  
Irwin, K. D.  
1995; 66 (15): 1998-2000
- **NEUTRON BACKGROUND FOR A DARK-MATTER EXPERIMENT AT A SHALLOW DEPTH SITE** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*  
Dasilva, A., Pritychenko, B., Dougherty, B. L., Gray, M., Lu, A., Smith, A., Akerib, D. S., Bauer, D., Cabrera, B., Caldwell, D. O., Lanou, R. E., Sadoulet, B., Yellin, et al  
1995; 354 (2-3): 553-559
- **Direct Detection of WIMP Dark Matter** *Snowmass '94 Workshop: Particle and Nuclear Astrophysics and Cosmology in the Next Millennium*  
Cabrera, B., Dougherty, B. L.  
edited by Peccei, R., Kolb, E.  
1995: 517-29
- **OPTICALLY INDUCED INDUCTANCE MODULATION OF A NB COIL** *Conference on Superconductive Devices and Circuits*  
Nam, S. W., Park, G. S., Cabrera, B., Huber, M. E.  
SPIE - INT SOC OPTICAL ENGINEERING.1994: 187-194
- **Simultaneous Measurement of Phonons and Ionization in Silicon Crystals for Direct Detection Experiment** *Center for Particle Astrophysics Newsletter, UC Berkeley*  
Penn, M. J., Dougherty, B. L., Cabrera, B.  
1994: 1-6
- **MEASUREMENTS OF THE FAST-NEUTRON FLUX AT 20 MWE UNDERGROUND** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*  
Chen, M., Novikov, V. M., Dougherty, B. L.  
1993; 336 (1-2): 232-235
- **THE 1ST CRYOGENIC DARK-MATTER EXPERIMENT** *5TH INTERNATIONAL WORKSHOP ON LOW TEMPERATURE DETECTORS ( LTD-5 )*  
Barnes, P. D., Dasilva, A., Aubourg, E., Akerib, D. S., Bauer, D., Borden, D., Cabrera, B., Caldwell, D. O., CHUGG, B., Cummings, A., Dougherty, B. L., Emes, J., Gray, et al  
SPRINGER/PLENUM PUBLISHERS.1993: 791-96
- **DESIGN OF KILOGRAM MASS SCALE TES FOR THE CRYOGENIC DARK-MATTER SEARCH** *5TH INTERNATIONAL WORKSHOP ON LOW TEMPERATURE DETECTORS ( LTD-5 )*  
CHUGG, B., Irwin, K. D., Cabrera, B.  
SPRINGER/PLENUM PUBLISHERS.1993: 429-32
- **SIMULTANEOUS MEASUREMENT OF PHONONS AND IONIZATION USING SICADS** *5TH INTERNATIONAL WORKSHOP ON LOW TEMPERATURE DETECTORS ( LTD-5 )*  
Penn, M. J., Dougherty, B. L., Cabrera, B.  
SPRINGER/PLENUM PUBLISHERS.1993: 423-28
- **BALLISTIC PHONON EMISSION FROM ELECTRON-HOLE DROPLETS - APPLICATION TO THE NUCLEAR RECOIL PROBLEM** *5TH INTERNATIONAL WORKSHOP ON LOW TEMPERATURE DETECTORS ( LTD-5 )*  
Esipov, S. E., Msall, M. E., Cabrera, B., Wolfe, J. P.  
SPRINGER/PLENUM PUBLISHERS.1993: 377-85
- **PROMPT PHONON SIGNALS FROM PARTICLE INTERACTIONS IN SI CRYSTALS** *5TH INTERNATIONAL WORKSHOP ON LOW TEMPERATURE DETECTORS ( LTD-5 )*  
Cabrera, B., Dougherty, B. L., Lee, A. T., Penn, M. J., Pronko, J. G., Young, B. A.  
SPRINGER/PLENUM PUBLISHERS.1993: 365-75
- **CHARGE TRAPPING EFFECTS IN CRYOGENIC PARTICLE DETECTORS MADE USING SINGLE-CRYSTAL SEMICONDUCTOR SUBSTRATES** *5TH INTERNATIONAL WORKSHOP ON LOW TEMPERATURE DETECTORS ( LTD-5 )*  
Dougherty, B. L., Cabrera, B., Lee, A. T., Penn, M. J., Young, B. A.  
SPRINGER/PLENUM PUBLISHERS.1993: 399-404

- **CHARGE-CARRIER COLLECTION BY SUPERCONDUCTING TRANSITION-EDGE SENSORS DEPOSITED ON SILICON** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*  
Dougherty, B. L., Cabrera, B., Lee, A. T., Penn, M. J., Young, B. A., Pronko, J. G.  
1993; 333 (2-3): 464-468
- **MEASUREMENTS OF THE BALLISTIC PHONON COMPONENT RESULTING FROM NUCLEAR RECOILS IN CRYSTALLINE SILICON** *PHYSICAL REVIEW LETTERS*  
Lee, A. T., Cabrera, B., Dougherty, B. L., Penn, M. J., Pronko, J. G.  
1993; 71 (9): 1395-1398
- **NOISE-REDUCTION IN LOW-FREQUENCY SQUID MEASUREMENTS WITH LASER-DRIVEN SWITCHING** *APPLIED PHYSICS LETTERS*  
Cunningham, C. E., Park, G. S., Cabrera, B., Huber, M. E.  
1993; 63 (8): 1152-1154
- **A LOW-POWER-DISSIPATION BROAD-BAND CRYOGENIC PREAMPLIFIER UTILIZING GAAS-MESFETS IN PARALLEL** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
LEE, A. T.  
1993; 64 (8): 2373-2378
- **ABSOLUTE MAGNETIC PENETRATION DEPTH OF THIN-FILM NIOBIUM MEASURED BY FLUXOID QUANTIZATION** *APPLIED PHYSICS LETTERS*  
Cunningham, C. E., Park, G. S., Cabrera, B., Huber, M. E.  
1993; 62 (17): 2122-2124
- **SINGLE TRAPPED VORTICES INDUCED IN A SUPERCONDUCTING FILM BY LASER SWITCHING** *JOURNAL OF APPLIED PHYSICS*  
Park, G. S., Cunningham, C. E., Cabrera, B., Huber, M. E.  
1993; 73 (5): 2419-2423
- **QUANTUM EFFICIENT DETECTION OF PHONONS WITH TUNGSTEN THIN-FILMS** *7th International Conference on Phonon Scattering in Condensed Matter*  
Irwin, K. D., Cabrera, B., King, R., Tigner, B.  
SPRINGER-VERLAG BERLIN.1993: 486-487
- **A PILOT DARK-MATTER PARTICLE SEARCH EXPERIMENT** *26TH INTERNATIONAL CONF ON HIGH ENERGY PHYSICS*  
Young, B. A., Dougherty, B. L., CHUGG, B., Barnes, P. D., Bauer, D., Borden, D., Cabrera, B., Caldwell, D. O., Dasilva, A., Ellman, B., Emes, J., Gray, M., Hale, et al  
AIP PRESS.1993: 1260-1265
- **A Prototype Dark Matter Particle Search Experiment** *Proceedings of the XXVI International Conference on High Energy Physics*  
Young, B. A., Dougherty, B. L., Chugg, B., Barnes, P. D., Bauer, D., Borden, D., Cabrera, B., Caldwell, D. O., Silva, A. D., Ellman, B., Emes, J., Gray, M., Hale, et al  
1993: 1260-65
- **CHARGE-CARRIER COLLECTION IN SUPERCONDUCTING TITANIUM TRANSITION-EDGE SENSORS DEPOSITED ON HIGH-PURITY SILICON** *7th International Conference on Phonon Scattering in Condensed Matter*  
Dougherty, B. L., Cabrera, B., Lee, A. T., Penn, M. J., Pronko, J. G., Young, B. A.  
SPRINGER-VERLAG BERLIN.1993: 484-485
- **STUDIES OF ATHERMAL PHONON PULSES IN SILICON-CRYSTALS FROM ALPHA, X-RAY AND NEUTRON BOMBARDMENT EXPERIMENTS** *7th International Conference on Phonon Scattering in Condensed Matter*  
Cabrera, B., Dougherty, B. L., Lee, A. T., Penn, M. J., Pronko, J. G., Young, B. A.  
SPRINGER-VERLAG BERLIN.1993: 482-483
- **OBSERVATION OF BALLISTIC PHONONS IN CRYSTALLINE SILICON INDUCED BY GAMMA-RAY AND NEUTRON INTERACTIONS** *7th International Conference on Phonon Scattering in Condensed Matter*  
Lee, A. T., Cabrera, B., Dougherty, B. L., Penn, M. J., Pronko, J. G., Young, B. A.  
SPRINGER-VERLAG BERLIN.1993: 488-489
- **THE LASER SWITCH IN SQUID MEASUREMENTS - FUNDAMENTAL EXPERIMENTS AND LOW-FREQUENCY NOISE-REDUCTION** *4TH INTERNATIONAL CONFERENCE on Superconducting and Quantum Effect Devices and Their Applications (SQUID 91)*  
Cabrera, B.

SPRINGER-VERLAG BERLIN.1993: 326–336

● **VORTEX PINNING FORCE IN A SUPERCONDUCTING NIOBIUM STRIP** *PHYSICAL REVIEW LETTERS*

Park, G. S., Cunningham, C. E., Cabrera, B., Huber, M. E.  
1992; 68 (12): 1920-1922

● **MEASUREMENTS OF IONIZATION PRODUCED IN SILICON-CRYSTALS BY LOW-ENERGY SILICON ATOMS** *PHYSICAL REVIEW A*

Dougherty, B. L.  
1992; 45 (3): 2104-2107

● **DETECTION OF ELEMENTARY-PARTICLES USING SILICON CRYSTAL ACOUSTIC DETECTORS WITH TITANIUM TRANSITION EDGE PHONON SENSORS** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*

Young, B. A., Cabrera, B., Lee, A. T., Dougherty, B. L.  
1992; 311 (1-2): 195-216

● **Detection of Elementary Particles Using Superconducting Transition-Edge Phonon Sensors on Si Crystal Surfaces** *Particles, Strings and Cosmology*

Cabrera, B.  
edited by Nath, P., Reucroft, S.  
World Scientific, Singapore.1992: 122–130

● **Fundamental Physics Experiments Using SQUIDS** *Principles and Applications of Superconducting Quantum Interference Devices*

Cabrella, B.  
edited by Barone, A.  
World Scientific, Hong Kong.1992: 345–416

● **MEASUREMENTS OF IONIZATION PRODUCED IN SILICON-CRYSTALS BY LOW-ENERGY SILICON ATOMS** *IVth International Workshop on Low Temperature Detectors for Neutrinos and Dark Matter (LTD-4)*

Dougherty, B. L.  
EDITIONS FRONTIERES.1992: 465–470

● **The Laser Switch in SQUID Measurements: Fundamental Experiments and Low-Frequency Noise Reduction** *Superconducting Devices and Their Applications*

Cabrera, B.  
edited by Koch, H., Lübbig, H.  
1992: 326–36

● **Phonon-Mediated Detectors for Dark Matter Searches and Reactor Neutrino Experiments** *International Symposium on Neutrino Astrophysics*

Cabrera, B., Dougherty, B. L., Irwin, K. D.  
edited by Suzuki, Y., Nakamura, K.  
1992: 399–409

● **PHONON-MEDIATED PARTICLE-DETECTION UTILIZING TI AND TI/AL HYBRID DETECTORS** *IVth International Workshop on Low Temperature Detectors for Neutrinos and Dark Matter (LTD-4)*

Lee, A. T., Cabrera, B., Young, B. A., Maluf, N. I.  
EDITIONS FRONTIERES.1992: 217–227

● **TUNGSTEN THIN-FILMS FOR USE IN CRYOGENIC PARTICLE DETECTORS** *IVth International Workshop on Low Temperature Detectors for Neutrinos and Dark Matter (LTD-4)*

Irwin, K. D., Cabrera, B., Tigner, B., Sethuraman, S.  
EDITIONS FRONTIERES.1992: 209–215

● **PHONON-MEDIATED DETECTORS FOR DARK MATTER SEARCHES AND NEUTRINO EXPERIMENTS** *2ND INTERNATIONAL WORKSHOP ON THEORETICAL AND PHENOMENOLOGICAL ASPECTS OF UNDERGROUND PHYSICS ( TAUP 91 )*

Cabrera, B., Dougherty, B. L., Irwin, K. D., Lee, A. T., Pronko, J. G., Young, B. A.  
ELSEVIER SCIENCE BV.1992: 449–461

● **SEARCH FOR A FLUX OF COSMIC-RAY MAGNETIC MONOPOLES WITH AN 8-CHANNEL SUPERCONDUCTING DETECTOR** *PHYSICAL REVIEW D*

Huber, M. E., Cabrera, B., Taber, M. A., Gardner, R. D.  
1991; 44 (3): 636-660

- **SEARCH FOR COSMIC-RAY MAGNETIC MONOPOLES USING A 3-LOOP SUPERCONDUCTIVE DETECTOR** *PHYSICAL REVIEW D*  
Gardner, R. D., Cabrera, B., Huber, M. E., Taber, M. A.  
1991; 44 (3): 622-635
- **PHONON-MEDIATED PARTICLE-DETECTION UTILIZING TITANIUM SUPERCONDUCTING TRANSITION EDGE SENSORS ON SILICON CRYSTAL-SURFACES** *1990 CONF ON APPLIED SUPERCONDUCTIVITY*  
Lee, A. T., Cabrera, B., Young, B. A.  
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.1991: 2753-56
- **TRAPPED VORTICES IN A SUPERCONDUCTING MICROBRIDGE** *1990 CONF ON APPLIED SUPERCONDUCTIVITY*  
Park, G. S., Cunningham, C. E., Cabrera, B., Huber, M. E.  
IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC.1991: 3021-24
- **Detection of Elementary Particles Using Superconducting Transition-Edge Phonon Sensors on Si Crystal Surfaces** *Surface Physics*  
Cabrera, B.  
edited by Ponce, F. A., Cordona, M.  
1991: 504-14
- **Search for Monopoles in the Cosmic Rays with Inductive Detectors** *PANIC XII: Particles and Nuclei*  
Cabrera, B., Calaprice, F. P.  
edited by Mathews, J. L., Donnelly, T. W., Farhi, E. H., Osborne, L. S.  
North-Holland.1991: 795c-808c
- **Modulation Schemes Leading Toward Low-Frequency Noise Reduction in SQUID Magnetometers** *Proceedings of Third Superconductive Electronics Conference*  
Cunningham, C. E., Park, G. S., Cabrera, B., Huber, M. E.  
1991
- **Nicolas Cabrera: A Brief Biography** *Surface Physics*  
Cabrera, B.  
edited by Ponce, F. A., Cordona, M.  
1991: 3-8
- **DETERMINATION OF THE COOPER-PAIR MASS IN NIOBIUM** *PHYSICAL REVIEW B*  
Tate, J., Felch, S. B., Cabrera, B.  
1990; 42 (13): 7885-7893
- **OBSERVATION OF ALPHA-INDUCED BALLISTIC PHONON TIME-OF-FLIGHT USING MULTICHANNEL SILICON CRYSTAL ACOUSTIC DETECTORS** *19TH INTERNATIONAL CONF ON LOW TEMPERATURE PHYSICS ( LT-19 )*  
Young, B. A., Cabrera, B., Lee, A. T.  
ELSEVIER SCIENCE BV.1990: 7-8
- **CORRELATION OF FLUX STATES GENERATED BY OPTICAL SWITCHING OF A SUPERCONDUCTING CIRCUIT** *19TH INTERNATIONAL CONF ON LOW TEMPERATURE PHYSICS ( LT-19 )*  
Cunningham, C. E., Park, G. S., Cabrera, B., Huber, M. E.  
ELSEVIER SCIENCE BV.1990: 113-114
- **OBSERVATION OF BALLISTIC PHONONS IN SILICON-CRYSTALS INDUCED BY ALPHA-PARTICLES** *PHYSICAL REVIEW LETTERS*  
Young, B. A., Cabrera, B., Lee, A. T.  
1990; 64 (23): 2795-2798
- **PHONON-MEDIATED DETECTION OF X-RAYS IN SILICON-CRYSTALS USING SUPERCONDUCTING TRANSITION EDGE PHONON SENSORS** *5TH EUROPEAN SYMP ON SEMICONDUCTOR DETECTORS : NEW DEVELOPMENTS IN RADIATION DETECTORS*  
Young, B. A., Cabrera, B., Lee, A. T., Martoff, C. J., Neuhauser, B., McVittie, J. P.  
ELSEVIER SCIENCE BV.1990: 119-24
- **LIMIT ON THE FLUX OF COSMIC-RAY MAGNETIC MONOPOLES FROM OPERATION OF AN 8-LOOP SUPERCONDUCTING DETECTOR** *PHYSICAL REVIEW LETTERS*  
Huber, M. E., Cabrera, B., Taber, M. A., Gardner, R. D.  
1990; 64 (8): 835-838

- **EARLY EXPERIENCES WITH PHYSICS SIMULATIONS IN THE CLASSROOM** *CONF ON COMPUTERS IN PHYSICS INSTRUCTION*  
Cabrera, B.  
ADDISON-WESLEY PUBL CO.1990: 77–83
- **Phonon-Mediated Detection of Particles: Report of Round Table Discussion** *PHONONS 89*  
Cabrera, B., Sadoulet, B., Maris, H. J., Wolfe, J. P.  
edited by Hunklinger, S., Ludwig, W., Weiss, G.  
World Scientific.1990: 1383–1393
- **RECENT PROGRESS IN THE DEVELOPMENT OF SILICON CRYSTAL ACOUSTIC DETECTORS** *3RD INTERNATIONAL WORKSHOP ON LOW TEMPERATURE DETECTORS FOR NEUTRINOS AND DARK MATTER*  
Young, B. A., Cabrera, B., Lee, A. T.  
EDITIONS FRONTIERES.1990: 183–191
- **Phonon-Mediated Detection of Elementary Particles** *PHONONS 89*  
Cabrera, B.  
edited by Hunklinger, S., Ludwig, W., Weiss, G.  
World Scientific.1990: 1373–1382
- **CRYOGENIC PREAMPLIFIERS FOR LOW-TEMPERATURE PARTICLE DETECTORS** *3RD INTERNATIONAL WORKSHOP ON LOW TEMPERATURE DETECTORS FOR NEUTRINOS AND DARK MATTER*  
Lee, A. T., Cabrera, B., Young, B. A.  
EDITIONS FRONTIERES.1990: 313–320
- **BROAD-BAND CRYOGENIC PREAMPLIFIERS INCORPORATING GAAS-MESFETS FOR USE WITH LOW-TEMPERATURE PARTICLE DETECTORS** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
Lee, A. T.  
1989; 60 (10): 3315-3322
- **ABSOLUTE MEASUREMENT OF THE DIAMETER OF A FUSED QUARTZ HEMISPHERE AT 6-K** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
Tate, J., McIntyre, D. H., Cabrera, B.  
1989; 60 (6): 985-992
- **DEMONSTRATION OF ABSOLUTE MAGNETIC-FLUX QUANTIZATION IN A SUPERCONDUCTING CIRCUIT** *PHYSICAL REVIEW LETTERS*  
Cabrera, B., Cunningham, C. E., Saroff, D.  
1989; 62 (17): 2040-2043
- **COOPER-PAIR MASS** *PHYSICAL REVIEW B*  
Cabrera, B., Peskin, M. E.  
1989; 39 (10): 6425-6430
- **STATUS OF STANFORD MAGNETIC MONPOLE SEARCH WITH 8-LOOP SUPERCONDUCTING DETECTOR** *IEEE TRANSACTIONS ON MAGNETICS*  
Huber, M. E., Cabrera, B., Taber, M. A., Gardner, R. D.  
1989; 25 (2): 1208-1211
- **LOW-NOISE SWITCHING OF A SUPERCONDUCTING CIRCUIT BY A LASER-INDUCED WEAK LINK** *IEEE TRANSACTIONS ON MAGNETICS*  
Cunningham, C. E., Cabrera, B., SAROFF, D. P., Price, J., Stevenson, T.  
1989; 25 (2): 1022-1025
- **PHONON-MEDIATED DETECTION OF X-RAYS IN SILICON-CRYSTALS USING SUPERCONDUCTING TRANSITION EDGE PHONON SENSORS** *IEEE TRANSACTIONS ON MAGNETICS*  
Young, B. A., Cabrera, B., Lee, A. T., Martoff, C. J., Neuhauser, B., McVittie, J. P.  
1989; 25 (2): 1347-1350
- **PRECISE DETERMINATION OF THE COOPER-PAIR MASS** *PHYSICAL REVIEW LETTERS*  
Tate, J., Cabrera, B., Felch, S. B., ANDERSON, J. T.  
1989; 62 (8): 845-848
- **ACOUSTIC DETECTION OF SINGLE PARTICLES** *NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT*

- Cabrera, B., Martoff, J., Neuhauser, B.  
1989; 275 (1): 97-111
- **LOW-FREQUENCY NOISE-REDUCTION IN SQUID MEASUREMENTS USING A LASER-DRIVEN SUPERCONDUCTING SWITCH .A. DIRECT INPUT CIRCUIT SWITCHING** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
ANDERSON, J. T., Cabrera, B., Taber, M. A., Felch, S. B., Tate, J.  
1989; 60 (2): 202-208
  - **LOW-FREQUENCY NOISE-REDUCTION IN SQUID MEASUREMENTS USING A LASER-DRIVEN SUPERCONDUCTING SWITCH .B. MODULATED INDUCTANCE SWITCHING** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
ANDERSON, J. T., Cabrera, B., Taber, M. A.  
1989; 60 (2): 209-213
  - **Phonon-Mediated Detection of Particles with Silicon Crystals** *Particle Astrophysics: Forefront Experimental Issues*  
Lee, A. T., Martoff, C. J., McVittie, J. P., Neuhauser, B., Young, B. A., Cabrera, B.  
edited by Norman, E. B.  
World Scientific.1989: 45–46
  - **Status of Dark Matter Searches** *Particle Astrophysics: Forefront Experimental Issues*  
Cabrera, B.  
edited by Norman, E. B.  
World Scientific.1989: 63–75
  - **Superconducting Detectors for Monopoles and Weakly Interacting Particles** *Proceedings of 1988 SLAC Summer Institute on Particle Physics*  
Cabrera, B.  
edited by Brennen, E.  
1989: 69–84
  - **Superconducting Detectors for Laboratory Dark Matter Searches** *Quantum Fluids and Solids - 1989*  
Cabrera, B.  
edited by Ihas, G. G., Takano, Y.  
1989: 342–51
  - **REVIEW OF PARTICLE PROPERTIES** *PHYSICS LETTERS B*  
Yost, G. P., Barnett, R. M., Hinchliffe, I., Lynch, G. R., RITTENBERG, A., Ross, R. R., Suzuki, M., Trippe, T. G., Wohl, C. G., Porter, F. C., Montanet, L., AGUILARBENITEZ, M., Hernandez, et al  
1988; 204: 1-?
  - **PHONON - MEDIATED PARTICLE-DETECTION** *IEEE TRANSACTIONS ON NUCLEAR SCIENCE*  
Neuhauser, B., Cabrera, B., Martoff, C. J., Young, B. A., Lee, A. T.  
1988; 35 (1): 65-69
  - **Rotating Superconductors and Fundamental Physical Constants** *Near Zero: New Frontiers of Physics*  
Cabrera, B., Felch, S. B., Anderson, J. T.  
edited by Fairbank, H. D., Deaver, B. S., Everitt, C. W., Michelson, P. F.  
Freeman, New York.1988: 323–332
  - **Magnetic Monopoles** *McGraw-Hill 1989 Yearbook of Science and Technology*  
Cabrera, B.  
edited by Parker, S. P.  
McGraw-Hill.1988; 7th: 199–202
  - **Status of Stanford Superconducting Detectors for Monopoles and Weakly Interacting Particles** *Superconductive Particle Detectors*  
Cabrera, B.  
edited by Barone, A.  
World Scientific, Singapore.1988: 119
  - **A Superconductive Detector to Search for Cosmic Ray Monopoles** *Near Zero: New Frontiers of Physics*  
Cabrera, B., Taber, M., Felch, S. B.  
edited by Fairbank, J. D., Deaver, B. S., Everitt, C. W., Michelson, P. F.

Freeman, New York.1988: 546–557

● **Rotating Superconductors and Fundamental Physical Constants** *Near Zero: New Frontiers of Physics*

Cabrera, B., Felch, S. B., Anderson, J. T.

edited by Fairbank, H. D., Deaver, B. S., Everitt, C. W., Michelson, P. F.

Freeman, New York.1988: 323–332

● **The 3He Nuclear Gyroscope and an Electric Dipole Moment Measurement** *Near Zero: New Frontiers of Physics*

Cabrera, B., Taber, M.

edited by Fairbank, J. D., Deaver, B. S., Everitt, C. W., Michelson, P. F.

Freeman, New York.1988: 558–570

● **Near Zero Magnetic Fields with Superconducting Shields** *Near Zero: New Frontiers of Physics*

Cabrera, B.

edited by Fairbank, J. D., Deaver, B. S., Everitt, C. W., Michelson, P. F.

Freeman, New York.1988: 312–322

● **ACOUSTIC DETECTION OF SINGLE PARTICLES FOR NEUTRINO EXPERIMENTS AND DARK MATTER SEARCHES** *IEEE TRANSACTIONS ON MAGNETICS*

Neuhauser, B., Cabrera, B., Martoff, C. J., Young, B. A.

1987; 23 (2): 469-472

● **REPORT ON THE STANFORD OCTAGONAL MAGNETIC MONOPOLE DETECTOR** *IEEE TRANSACTIONS ON MAGNETICS*

Huber, M. E., Cabrera, B., Taber, M. A., Gardner, R. D.

1987; 23 (2): 1134-1137

● **PHONON-MEDIATED DETECTION OF ALPHA-PARTICLES WITH ALUMINUM TRANSITION EDGE SENSORS** *JAPANESE JOURNAL OF APPLIED PHYSICS PART I-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS*

Neuhauser, B., Cabrera, B., Martoff, C. J., Young, B. A.

1987; 26: 1671-1672

● **Cryogenic Detectors for Weakly Interacting Particles** *13th Texas Symposium on RELATIVISTIC ASTROPHYSICS*

Neuhauser, B., Martoff, C. J., Young, B. A.

edited by Ulmer, M. P.

1987: 257

● **PHYSICS SIMULATIONS: Teaching Aids for Elementary Physics Instruction** *Academic Computing*

Cabrera, B.

1987: 48

● **ROTATING SUPERCONDUCTORS AND THE COOPER PAIR MASS** *JAPANESE JOURNAL OF APPLIED PHYSICS PART I-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS*

Cabrera, B.

1987; 26: 1961-1966

● **ELECTRIC-FIELD ENHANCED HOPPING CONDUCTIVITY IN THIN-FILM CARBON THERMOMETERS** *JAPANESE JOURNAL OF APPLIED PHYSICS PART I-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS*

Neuhauser, B., Cabrera, B., Martoff, C. J., Young, B. A., Seiffert, M.

1987; 26: 1745-1746

● **DETERMINATION OF H/M-STAR USING A ROTATING NIOBIUM RING** *JAPANESE JOURNAL OF APPLIED PHYSICS PART I-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS*

Tate, J., Cabrera, B.

1987; 26: 1689-1690

● **OPERATION OF 8-LOOP SUPERCONDUCTING MAGNETIC MONOPOLE DETECTOR** *JAPANESE JOURNAL OF APPLIED PHYSICS PART I-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS*

Huber, M. E., Cabrera, B., Taber, M. A., Gardner, R. D.

1987; 26: 1687-1688

- **New Cryogenic Detectors for Improved Neutrino and Double Beta Decay Experiments and Dark Matter Searches** *Proceedings of Summer Study on the Physics of the Superconducting Supercollider*  
Caldwell, D., Sadoulet, B., Cabrera, B.  
edited by Donaldson, R., Marx, J.  
1986: 704
- **New Data in the Precise Determination of h/me Using a Rotating Superconducting Ring** *Proceedings of the 1986 Conference on Precision Electromagnetic Measurements*  
Cabrera, B., Tate, J.  
edited by Dziuba, R. F.  
1986: 8
- **Magnetic Monopoles at the Parker Limit: New Prospects for Large-Scale Detectors** *Proceedings of Summer Study on the Physics of the Superconducting Supercollider*  
Cherry, M. L., Groom, D. E., Musser, J.  
edited by Donaldson, R., Marx, J.  
1986: 665
- **Acoustic Detection of Low-Energy Radiation** *Conference on Intersections Between Particle and Nuclear Physics*  
Cabrera, B., Martoff, C. J., Neuhauser, B.  
1986: 1119
- **Cosmic-Ray Monopole Searches at Stanford Using Superconductive Detectors** *Inner Space/Outer Space*  
Cabrera, B., Taber, M., Gardener, R., Huber, M.  
edited by Kolb, E. W., Tuner, M. S., Lindley, D., Olive, K., Seckel, D.  
University of Chicago Press.1986: 426
- **Cryogenic Particle Detectors for Monopoles and Neutrinos** *proceedings of VI Moriond Workshop*  
Cabrera, B.  
edited by Fackler, O., Thanh Van, J. T.  
1986: 423
- **SENSING-AREA DISTRIBUTION-FUNCTIONS FOR ONE-LOOP AND 3-LOOP SUPERCONDUCTIVE MAGNETIC-MONOPOLE DETECTORS** *PHYSICAL REVIEW D*  
Cabrera, B., Gardner, R., King, R.  
1985; 31 (9): 2199-2210
- **Search for Cosmic Ray Monopole Flux** *Electroweak Effects at High Energies*  
Cabrera, B.  
edited by Newman, H.  
Plenum.1985: 611
- **Superconductive Monopole Detectors** *McGraw-Hill 1985 Yearbook of Science and Technology*  
Cabrera, B.  
edited by Parker, S. P.  
McGraw-Hill.1985; 5th: 247
- **REDUCTION OF EXCESS LOW-FREQUENCY NOISE IN RF-BIASED SQUIDS** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
Taber, M., Cabrera, B.  
1985; 56 (9): 1835-1837
- **BOLOMETRIC DETECTION OF NEUTRINOS** *PHYSICAL REVIEW LETTERS*  
Cabrera, B., Krauss, L. M., Wilczek, F.  
1985; 55 (1): 25-28
- **PRECISE DETERMINATION OF H/ME USING A ROTATING, SUPERCONDUCTING RING** *PHYSICAL REVIEW B*  
Felch, S. B., Tate, J., Cabrera, B., ANDERSON, J. T.  
1985; 31 (11): 7006-7011

● **Report on Stanford Superconductive Monopole Detectors** *Monopole '83*

Cabrera, B., Taber, M., Gardener, R., Huber, M., Bourg, J.  
edited by Stone, J.  
Plenum.1984: 439

● **Magnetic Monopoles: Evidence Since the Dirac Conjecture** *Quantum, Space and Time - The Quest Continues: Studies and Essays in Honor of Louis de Broglie, Paul Dirac and Eugene Wigner*

Cabrera, B.  
edited by Barut, A. O., de Merine, A. V., Vigier, J.  
University Press, Cambridge.1984: 449

● **Measurement of h/me Using a Precision Niobium Ring** *Low Temperature Physics - LT-17*

Cabrera, B., Felch, S. B., Tate, J., Anderson, J. T., Wühl, H.  
edited by Eckern, U., Schmid, A., Weber, W.  
North-Holland.1984: 923

● **High Resolution Magnetic Measurements on Rotating Superconductors to Determine h/ me** *Precision Measurement and Fundamental Constants II*

Felch, B. S., Anderson, J. T., Cabrera, B.  
edited by Taylor, B. N., Philips, W. D.  
Nat. Bur. Stand. (U. S.), Spec. Publ.1984: 359

● **Large Scale Superconductive Monopole Detector** *Low Temperature Physics - LT-17*

Gardener, R., Taber, M., Huber, M., Wühl, H.  
edited by Eckern, U., Schmid, A., Weber, W.  
North- Holland.1984: 945

● **Magnetic Monopoles: Evidence Since the Dirac Conjecture.** *Quantum, Space and Time - The Quest Continues: Studies and Essays in Honor of Louis de Broglie, Paul Dirac and Eugene Wigner*

Cabrera, B.  
edited by Barut, A. O., der Merine, A. V., Vigier, J.  
Univ. Press, Cambridge.1984: 449

● **Scanning Three-Axis SQUID Magnetometer for Measurement of Sub-Microgauss Magnetic Fields** *Low Temperature Physics - LT-17*

Cabrera, B., Lockhart, J. M., Cornell, E., Pollock, S. J., Wühl, H.  
edited by Eckern, U., Schmid, A., Weber, W.  
North- Holland.1984: 925

● **Novel Noise Thermometer for Measuring the Local Critical Temperature of a Superconducting Ring** *Low Temperature Physics - LT-17*

Cabrera, B., Tate, J., Felch, S. B.  
edited by Eckern, U., Schmid, A., Weber, W., Wühl, W.  
North-Holland.1984: 1179

● **UPPER LIMIT ON FLUX OF COSMIC-RAY MONOPOLES OBTAINED WITH A 3-LOOP SUPERCONDUCTIVE DETECTOR** *PHYSICAL REVIEW LETTERS*

Cabrera, B., Taber, M., Gardner, R., BOURG, J.  
1983; 51 (21): 1933-1936

● **Super-conductive Monopole Detectors** *Proceedings of Tenth SLAC Summer Institute on Particle Physics*

Cabrera, B.  
edited by Moshen, A.  
1983: 634

● **Status of Stanford Superconductive monopole Detectors** *Magnetic Monopoles*

Cabrera, B.  
edited by Carrigan, R. A., Tower, W. P.  
Plenum.1983: 175

● **Superconductive Monopole Detectors** *Proceedings of Tenth SLAC Summer Institute on Particle Physics*

Cabrera, B.

edited by Moshen, A.

1983: 634

● **MAGNETIC MONOPOLES - EVIDENCE SINCE THE DIRAC CONJECTURE** *FOUNDATIONS OF PHYSICS*

Cabrera, B., Trower, W. P.

1983; 13 (2): 195-215

● **RELATIVISTIC MASS CORRECTIONS FOR ROTATING SUPERCONDUCTORS** *PHYSICAL REVIEW B*

Cabrera, B., Gutfreund, H., Little, W. A.

1982; 25 (11): 6644-6654

● **From Flux Quantization to Magnetic Monopoles** *Proceedings of the Third Workshop on Grand Unification*

Cabrera, B.

edited by Frampton, P., Glashow, S. L., Dam, H. V.

1982: 131

● **Progress on the Relativity Gyroscope Experiment Since 1976** *Proceedings of Second Marcel Grossmann Meeting on General Relativity*

Cabrera, B., Anderson, J. T., Everitt, C. F., Leslie, B. C., Lipa, J. A.

edited by Ruffini, R.

1982: 939

● **From Flux Quantization to Magnetic Monopoles** *Proceedings of the Third Workshop on Grand Unification*

Cabrera, B.

edited by Frampton, P., Glashow, S. L., Dam, H. V.

1982

● **1ST RESULTS FROM A SUPERCONDUCTIVE DETECTOR FOR MOVING MAGNETIC MONOPOLES** *PHYSICAL REVIEW LETTERS*

Cabrera, B.

1982; 48 (20): 1378-1381

● **DETERMINATION OF H-ME IN ROTATING SUPERCONDUCTING RINGS** *PHYSICA B & C*

Cabrera, B., Benjamin, S., ANDERSON, J. T.

1981; 107 (1-3): 19-20

● **PRECISION AREA MEASUREMENTS DETERMINE FUNDAMENTAL PHYSICAL CONSTANTS** *PRECISION ENGINEERING-JOURNAL OF THE AMERICAN SOCIETY FOR PRECISION ENGINEERING*

Cabrera, B., SIDDALL, G. J.

1981; 3 (3): 125-130

● **Application of SQUIDs to Fundamental Physics** *En el Centenario de Blas Cabrera*

Cabrera, B.

edited by Velayos, S.

Universidad International de Canarias "Perez Galdos".1979: 173

● **Application of SQUIDs to Measurements in Fundamental Physics** *conference in honor of my grandfather Blas Cabrera*

Cabrera, B.

1979

● **ULTRALOW MAGNETIC-FIELD APPARATUS FOR A CRYOGENIC GYROSCOPE** *ACTA ASTRONAUTICA*

Cabrera, B., VANKANN, F. J.

1978; 5 (1-2): 125-130

● **Integration of SQUID 1/f Noise and its Application to a Superconducting Gyroscope** *J. de Physique*

Cabrera, B., Anderson, J. T.

1978; C6: 1210

● **Signal Detection in 1/f Noise of SQUID Magnetometers** *Conference on Future Trends in Superconductive Electronics*

Cabrera, B., Aderson, J. T.

1978: 161

- **Application of SQUIDs to Measurements in Fundamental Physics** *Conference on Future Trends in Superconductive Electronics*  
Cabrera, B.  
1978: 73
- **HIGH ACCURACY GYROSCOPE READOUT TEST FACILITY FOR RELATIVITY GYROSCOPE EXPERIMENT** *IEEE TRANSACTIONS ON MAGNETICS*  
Cabrera, B., VANKANN, F. J.  
1977; 13 (1): 375-376
- **SINGLE-PASS MAGNETIC CHARGE DETECTOR UTILIZING SUPERCONDUCTING TECHNOLOGY**  
Cabrera, B.  
AMER INST PHYSICS.1975: 87-87
- **Generating Ultra-Low Magnetic Field Regions with Superconducting Shields and Their Use with a Sensitive Magnetic Charge Detector** *Low Temperature Physics - LT14*  
Cabrera, B.  
edited by Krusius, M., Vuorio, M.  
North Holland/American Elsevier.1975: 270
- **MAGNETIC SHIELDING USING SUPERCONDUCTING LEAD FOIL**  
Cabrera, B.  
AMER INST PHYSICS.1973: 1609-
- **Electric and Magnetic Shielding with Superconductors** *The Science and Technology of Superconductivity*  
Cabrera, B., Hamilton, W. O.  
Plenum.1973: 587
- **A NOVEL MEASUREMENT OF FLUXOID QUANTUM USING A CLARKE SLUG**  
Deaver, B. S., CABRERA, B. P., Williams, J.  
AMER INST PHYSICS.1968: 1691-?