

# Abhijit Majumder

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## PERSONAL

Citizenship: Indian

## EDUCATION

- 1997-2002      **Doctor of Philosophy (Ph.D.) in Physics**  
McGill University, Montréal, Canada  
Thesis Title: *Matter under extreme conditions:  
theoretical studies in two energy regimes*
- 1995-1997      **Master of Science (M.Sc.) in Physics**  
Indian Institute of Technology at Kharagpur, India  
Thesis Title: *A study of Odd-Even Nuclei  
using the core particle excitation model*
- 1992-1996      **Bachelor of Science (B.Sc) (Honours) in Physics**  
Indian Institute of Technology at Kharagpur, India

## SCHOLARSHIPS, AWARDS AND DISTINCTIONS

- 2002-2004      *Natural Sciences and Engineering Research Council  
of Canada (NSERC) fellowship*  
Post Doctoral fellowship  
Lawrence Berkeley National Lab., Berkeley, California
- 2000-2002      *Hydro-Quebec McGill Major Fellowship*  
Post Graduate Fellowship  
McGill University, Montréal, Canada
- 2000-2001      *Neil Croll Memorial Award*  
Post Graduate Award  
McGill University, Montréal, Canada

- 1999-2000      *Alexander McFee McGill Major Fellowship*  
Post Graduate Fellowship  
McGill University, Montréal, Canada
- 1997-1998      *Carl Reinhart Bursary*  
McGill University, Montréal, Canada
- 1997            *GATE merit certificate (Physics)* (rank: 8th)  
All India Post Graduate Physics Examination.

## **WORK EXPERIENCE**

- 9/2008-present      **Visiting Assistant Professor**  
The Ohio State University, Physics Department, Columbus, Ohio
- Conducting theoretical research in high energy heavy-ion collisions and high energy particle collisions
  - Teaching undergraduate and graduate physics courses
- 2005-2008          **Post Doctoral Research Associate**  
Duke University, Physics Department, Durham, North Carolina
- Conducting theoretical research in high energy heavy-ion collisions and high energy particle collisions
- 2004-2005          **Post Doctoral Fellow**  
Lawrence Berkeley National Lab., Berkeley, California
- Conducting theoretical research in high energy heavy-ion collisions and high energy particle collisions
- 2002-2004          **NSERC Post Doctoral Fellow**  
Lawrence Berkeley National Lab., Berkeley, California
- Conducting theoretical research in high energy heavy-ion collisions and high energy particle collisions
- 1998-2002          **Research Assistant**  
McGill University, Montréal, Canada
- Conducted theoretical research in intermediate and high energy heavy-ion collisions
- 1997-2001          **Teaching Assistant**  
McGill University, Montréal, Canada
- Prepared solution sets for assignments
  - Graded assignments
  - Guest lectured

**SPEAKER AT CONFERENCES, WORKSHOPS, SUMMER SCHOOLS**

**Fourth Meeting of the Theory and Experimental Collaboration for Hot QCD Matter (TECHQM)**, *invited talk*, Brookhaven National Laboratory, Upton, NY, December 2009.

**CIPANP 2009, Tenth Conference on the Intersections of Particle and Nuclear Physics**, *invited parallel talk*, San Diego, CA, May 2009.

**Quark Matter 2009, The twenty-first International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions**, *invited summary talk*, Knoxville, TN, April 2009.

**SCET 2009, Sixth workshop on Soft-Collinear Effective Theory**, *invited talk*, MIT, Cambridge, MA, March 2009.

**Second Meeting of the Theory and Experimental Collaboration for Hot QCD Matter (TECHQM)**, *invited talk*, Lawrence Berkeley National Laboratory, Berkeley, CA, December 2008.

**EICC 2008, Electron-Ion Collider Collaboration Meeting**, *invited talk*, Lawrence Berkeley National Laboratory, Berkeley, CA, December 2008.

**Hard Probes 2008, International Conference on Hard and Electromagnetic Probes of High Energy Nuclear Collisions**, *invited plenary talk*, Illa da Toxa, Spain, June 2008.

**First Meeting of the Theory and Experimental Collaboration for Hot QCD Matter (TECHQM)**, *invited talk*, Brookhaven National Laboratory, Upton, NY, May 2008.

**APS April meeting, Mini-symposium on “Hard Probes of the Quark-Gluon Plasma”**, *invited lead talk*, St. Louis, MO, April 2008.

**ISMD 2007, International Symposium on Multiparticle Dynamics**, *invited talk*, Berkeley, CA, August 2007.

**ETD-HIC 2007, Early Time Dynamics in Heavy Ion Collisions**, *invited talk*, Montréal, Canada, July 2007.

**Heavy Ion Collisions at the LHC, Last Call for Predictions**, *contributed talk*, CERN, Geneva, Switzerland, June 2007.

**Quark Matter 2006, The nineteenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions**, *invited plenary talk*, Shanghai, China, November 2006.

**Hard Probes 2006, International Conference on Hard and Electromagnetic Probes of High Energy Nuclear Collisions**, *invited plenary talk*, Pacific Grove, CA, June 2006.

**Interactions Between Hard Probes and The Bulk, workshop at the 2006 RHIC & AGS Annual Users' Meeting**, *invited talk*, Brookhaven National Laboratory Upton, NY, June 2005.

**From High  $\mu_B$  to High Energy, workshop at the 2006 RHIC & AGS Annual Users' Meeting**, *invited talk*, Brookhaven National Laboratory Upton, NY, June 2005.

**International Conference on Strong & Electroweak Matter 2006**, *contributed talk*, Brookhaven National Laboratory Upton, NY, May 2006

**Boulder Workshop on Heavy-ion physics**, *invited talk*, Physics Department, University of Colorado, Boulder, CO, May 2006.

**Strangeness in Quark Matter 2006**, *symposium talk*, The International Conference on Strangeness in Quark Matter, UCLA, Los Angeles, CA, March 2006.

**Quark Matter 2005: The Eighteenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions**, *contributed talk*, Budapest, Hungary, August 2005.

**School of Collective Dynamics in High-Energy Collisions**, *invited talk*, Lawrence Berkeley National Laboratory, Berkeley, CA, May 2005.

**Workshop on Correlations and Fluctuations in Relativistic Nuclear Collisions**, *invited talk*, MIT, Cambridge, MA, April 2005.

**RBRC Workshop - Jet Correlations at RHIC**, *invited talk*, Brookhaven National Laboratory Upton, NY, March 2005.

**Workshop on In-Medium Hadron Physics**, *contributed talk*, Giessen, Germany, November 2004.

**Hard Probes 2004, International Conference on Hard and Electromagnetic Probes of High Energy Nuclear Collisions**, *contributed talk*, Ericeira, Portugal, November 2004.

**Fall meeting of the Division of Nuclear physics, American Physical Society**, *contributed talk*, Chicago, Il, October 2004.

**GHP 2004, First Meeting of the APS Topical Group on Hadronic Physics**, *invited talk*, Fermi National Accelerator Lab., Batavia, Il, October 2004.

**Hot Quarks 2004: Workshop for Young Scientists on the Physics of Ultra-Relativistic Nucleus-Nucleus Collisions**, *contributed talk*, Taos, NM, July 2004.

**Quark Matter 2004: The Seventeenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions**, *contributed talk*, Oakland, CA, January 2004.

**RBRC workshop: High  $P_T$  Physics at RHIC**, *contributed talk*, Brookhaven National Lab., Upton, NY, December 2003.

**Fall meeting of the Division of Nuclear physics, American Physical Society**, *contributed talk*, University of Arizona, Tucson, AZ, October 2003.

**INT workshop: The First Three Years of Heavy-Ion Physics at RHIC**, *contributed talk*, Institute for Nuclear theory, University of Washington, Seattle, WA, April-June 2003.

**INT/RHIC Winter Workshop 2002 on First Two Years of RHIC: Theory versus Experiments**, *contributed talk*, Institute for Nuclear theory, University of Washington, Seattle, WA, December 2002.

**MRST 2001** (The 23rd Annual Montreal-Rochester-Syracuse-Toronto Conference on High Energy Physics), *contributed talk*, University of Western Ontario, Ontario, Canada, May 2001.

**POSTER/ATTENDEE AT CONFERENCES, WORKSHOPS, SUMMER SCHOOLS**

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**Workshop on Ridge formation in High Energy Heavy-Ion Collisions**, Brookhaven National Laboratory, September 2008 .

**2004 CTEQ Summer School: QCD Analysis and Phenomenology**, Madison, Wisconsin, June 2004 .

**Gordon Research Conference on Nuclear Physics**, Salve Regina University, Newport, Rhode Island, USA, July 2001.

**Quark Matter 2001, The Fifteenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions** , State University of New York at Stony Brook, Long Island, New York, USA, January 2001.

**National Nuclear Physics Summer School**, University of California, Santa Cruz, California, USA, July 2000.

**Gordon Research Conference on Nuclear Chemistry**, Colby-Sawyer College, New London, New Hampshire, USA, June 2000.

**Gordon Research Conference on Nuclear Chemistry**, Colby-Sawyer College, New London, New Hampshire, USA, June 1998.

**MRST 1998** (The 20th Annual Montreal-Rochester-Syracuse-Toronto Conference on High Energy Physics), McGill University, Montreal, Canada, May 1998.

**RECENT INVITED COLLOQUIA AND SEMINARS**

**Nuclear Physics Seminar**, Department of Physics, Iowa State University, January 2010.

**Hadronic Physics Seminar**, Department of Physics, McGill University, December 2009.

**Nuclear Physics Seminar**, Wayne State University, May 2009.

**Nuclear Physics Seminar**, University of Maryland, November 2008.

**Special Nuclear Physics Seminar**, The Ohio State University, March 2008.

**Physics Seminar**, Thomas Jefferson National Accelerator Facility, November 2007.

**Departmental Colloquium**, College of William & Mary, February 2008.

**PHENIX collaboration meeting**, Brookhaven National Laboratory, December 2007.

**Physics Seminar**, Thomas Jefferson National Accelerator Facility, November 2007.

**Hadronic Physics Seminar**, Department of Physics, McGill University, July 2007.

**Cyclotron Colloquium**, Cyclotron Institute, Texas A&M University, May 2007.

**Nuclear Science Division Colloquium**, Lawrence Berkeley National Lab., April 2007.

**Nuclear theory Seminar**, School of Physics and Astronomy, University of Minnesota, March 2007.

**Theory Seminar**, Variable Energy Cyclotron Center, Calcutta, India, December 2006.

**Nuclear Theory Seminar**, Department of Physics, Ohio State University, February 2005.

**High Energy Physics seminar**, Department of Physics, Duke University, January 2005.

**COMMUNITY SERVICE**

**Referee for:**

Canadian Journal of Physics.

Journal of Physics G, (Nuclear and Particle Physics).

Modern Physics Letters A.

Physics Letters B.

Physical Review C, (Nuclear Physics).

Physical Review Letters.

**Conference Organization:**

Effective Probes of QCD Matter 2008, Durham, NC. (Primary Organizer)

Hard Probes 2006, Asilomar, CA. (Organizing Committee)

Quark Matter 2004, Oakland, CA. (Vice Chair, plenary and parallel sessions)

MRST 1998, Montreal, CA (Helped in Organization)

**Other:**

General Secretary: of the Physical Society of the Indian Institute of Technology at Kharagpur, India, (1995).

Editor: for *Shristi*: annual science magazine of the Physical Society of the Indian Institute of Technology at Kharagpur, India, (1996).

**PUBLICATION LIST****Invited Reviews:**

**A. Majumder** and M. Van Leeuwen, “The theory and phenomenology of perturbative QCD based jet quenching”, Prog. Part. Nucl. Phys. (2010), *to appear*.

**Letters:**

G. Y. Qin and **A. Majumder**, “A pQCD-based description of heavy and light flavor jet quenching”, arXiv:0910.3016 [hep-ph].

G. Y. Qin, **A. Majumder**, H. Song and U. Heinz, “Energy and momentum deposited into a QCD medium by a jet shower”, Phys. Rev. Lett. **103**, 152303 (2009), arXiv:0903.2255 [nucl-th].

**A. Majumder**, “The in-medium scale evolution in jet modification”, arXiv:0901.4516 [nucl-th].

**A. Majumder**, B. Müller and X.-N. Wang, “Small shear viscosity of a quark-gluon plasma implies strong jet quenching”, Phys. Rev. Lett. **99**, 192301 (2007), [hep-ph/0703082].

**A. Majumder**, E. Wang and X.-N. Wang, “Modified dihadron fragmentation function in hot and nuclear matter”, Phys. Rev. Lett. **99**, 152301 (2007), [nucl-th/0412061].

**A. Majumder**, B. Müller, and S. A. Bass, “Longitudinal broadening of quenched Jets in turbulent color fields”, Phys. Rev. Lett. **99**, 042301 (2007), [hep-ph/0611135].

V. Koch, **A. Majumder** and X.-N. Wang, “Cerenkov radiation from jets in heavy-ion collisions”, Phys. Rev. Lett. **96**, 172302 (2006), [nucl-th/0507063].

V. Koch, **A. Majumder** and J. Randrup, “Baryon-strangeness correlations: a diagnostic of strongly interacting matter”, Phys. Rev. Lett. **95**, 182301 (2005), [nucl-th/0505052].

**Short Articles:**

**A. Majumder**, “Elastic energy loss and longitudinal straggling of a hard jet”, Phys. Rev. C **80**, 031902(R) (2009), arXiv:0810.4967 [nucl-th].

**A. Majumder**, C. Nonaka and S. A. Bass, “Jet modification in three dimensional fluid dynamics at next-to-leading twist”, Phys. Rev. C **76**, 041902(R) (2007), [nucl-th/0703019].

**A. Majumder**, “Resolving the plasma profile via differential single inclusive suppression,” Phys. Rev. C **75**, 021901(R) (2007), [nucl-th/0608043].

**A. Majumder** and X.-N. Wang, “LPM interference and cerenkov-like gluon bremsstrahlung in dense matter”, Phys. Rev. C **73**, 051901(R) (2006), [nucl-th/0507062].

### Regular Articles:

**A. Majumder**, “Hard collinear gluon radiation and multiple scattering in a medium”, arXiv:0912.2987 [nucl-th].

**A. Majumder**, B. Müller and S. Mrowczynski, “Momentum Broadening of a Fast Parton in a Perturbative Quark-Gluon Plasma”, Phys. Rev. D (2009) *to appear*, arXiv:0903.3683 [hep-ph].

S. A. Bass, C. Gale, **A. Majumder**, C. Nonaka, G. Y. Qin, T. Renk and J. Ruppert, “Systematic Comparison of Jet Energy-Loss Schemes in a realistic hydrodynamic medium”, Phys. Rev. C **79**, 024901 (2009), arXiv:0808.0908 [nucl-th]

A. Idilbi and **A. Majumder**, “Extending Soft-Collinear-Effective-Theory to describe hard jets in dense QCD media”, Phys. Rev. D **80**, 054022 (2009), arXiv:0808.1087 [hep-ph].

**A. Majumder**, and X.-N. Wang, “The modification of the dihadron fragmentation function in a cold nuclear medium”, arXiv:0806.2653 [nucl-th].

**A. Majumder**, R. J. Fries and B. Müller, “Photon bremsstrahlung and diffusive broadening of a hard jet”, Phys. Rev. C **77**, 065209 (2008) [arXiv:0711.2475 [nucl-th]].

**A. Majumder** and B. Müller, “Higher twist jet broadening and classical propagation”, Phys. Rev. C **77**, 054903 (2008) [arXiv:0705.1147 [nucl-th]].

G. Qin, **A. Majumder** and C. Gale, “Photon Production from Charge-Asymmetric Hot and Dense Matter”, Phys. Rev. C **75**, 064909 (2007), [hep-ph/0703312].

**A. Majumder** and B. Müller, “Baryonic strangeness and related susceptibilities in QCD,” Phys. Rev. C **74**, 054901 (2006), [nucl-th/0605079].

V. Koch, **A. Majumder** and J. Randrup, “Signals of spinodal hadronization: strangeness trapping”, Phys. Rev. C **72**, 064903 (2005), [nucl-th/0509030].

**A. Majumder**, E. Wang and X.-N. Wang, “Modified fragmentation from quark recombination”, Phys. Rev. C **73**, 044901 (2006), [nucl-th/0506040].

**A. Majumder**, and X.-N. Wang, “Evolution of the parton dihadron fragmentation function”, Phys. Rev. D. **72**, 034007 (2005) , [hep-ph/0411174].

**A. Majumder**, and X.-N. Wang, “The dihadron fragmentation function and its evolution”, Phys. Rev. D. **70**, 014007 (2004), [hep-ph/0402245].

**A. Majumder**, A. Bourque and C. Gale, “Broken symmetries and dilepton production from gluon fusion in a quark gluon plasma”, Phys. Rev. C. **69**, 064901 (2004), [hep-ph/0311178].

**A. Majumder** and V. Koch, “The chemical equilibration volume: measuring the degree of thermalization”, Phys. Rev. C. **68**, 044903 (2003), [nucl-th/0305047].

**A. Majumder**, C. Gale, “On the imaginary parts and infrared divergences of two-loop vector boson self-energies in thermal QCD”, Phys. Rev. C. **65**, 055203 (2002), [hep-ph/0111181].

C. B. Das, S. Das Gupta, and **A. Majumder**, “Parametrizing yields of nuclear multifragmentation”, Phys. Rev. C. **65**, 034608 (2002), [nucl-th/0111059].

**A. Majumder**, C. Gale, “Dileptons from a Quark Gluon Plasma with Finite Baryon Density”, Phys. Rev. D. **63**, 114008 (2001), [hep-ph/0011397].

**A. Majumder**, S. Das Gupta, “Calculations for Populations of Selected Isotopes in Intermediate Energy Heavy Ion Collisions”, Phys. Rev. C. **61**, 034603 (2000), [nucl-th/9907100].

S. Das Gupta, **A. Majumder**, S. Pratt, and A. Mekjian, “A soluble statistical model for nuclear fragmentation”, *unpublished*, [nucl-th/9903007].

**A. Majumder**, S. Das Gupta, “Excluded Volume in Nuclear Fragmentation ”, Phys. Rev. C. **59**, 845 (1999).

## CONFERENCE PROCEEDINGS:

### In Refereed Journals

**A. Majumder**, “Jet Medium interactions at Quark Matter 2009”, Proceedings of Quark Matter 2009, Knoxville, TN , 30 Mar - 4 Apr, Nucl. Phys. A **830**, 875C (2009), arXiv:0908.1747 [hep-ph].

**A. Majumder**, “Characterizations of the medium in jet quenching calculations,” Proceedings of the 3rd International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions, Illa da Toxa, Galicia, Spain, 8-14 Jun 2006, arXiv:0810.1367 [nucl-th].

S. A. Bass, C. Gale, **A. Majumder**, C. Nonaka, G. Y. Qin, T. Renk and J. Ruppert, “Systematic Comparison of Jet Energy-Loss Schemes in a 3D hydrodynamic medium,” Proceedings of Quark Matter 2008, Jaipur, India, 4-10 Feb 2008, J. Phys. G **35**, 104064 (2008) [arXiv:0805.3271 [nucl-th]].

**A. Majumder**, “The study of dense matter through jet modification”, Proceedings of ISMD 2007, Berkeley, CA, 4-9 Aug 2007. Act. Phys. Pol. B *to appear*, arXiv:0801.1446 [nucl-th].

G. Qin, **A. Majumder** and C. Gale, “Electromagnetic Radiation from Broken Symmetries in Relativistic Nuclear Collisions” Proceedings of Quark Matter 2006, Shanghai, China, 14-20 Nov 2006. Int. J. Mod. Phys. E *to appear* [hep-ph/0703026].

**A. Majumder**, “A Comparative study of Jet-quenching Schemes”, Proceedings of Quark Matter 2006, Shanghai, China, 14-20 Nov 2006. J. Phys. G **34**, S377 (2007), [nucl-th/0702066].

**A. Majumder**, “Deciphering the Properties of Hot and Dense Matter with Hadron-hadron Correlations”, Proceedings of the 2nd International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions, Pacific Grove, CA, 9-16 Jun 2006, Nucl. Phys. A. **783** 117 (2007), [nucl-th/0701084].

**A. Majumder**, “Hadron-hadron correlations at high  $p_T$  in heavy-ion collisions”, Proceedings of International Conference on Strong & Electroweak Matter 2006, Upton, NY, 10-13 May 2006, Nucl. Phys. A. **785**, 158 (2007), [nucl-th/0703032].

**A. Majumder**, “Deciphering Deconfinement in Correlations of Conserved Charges”, Proceedings of Strangeness in Quark Matter 2006, Los Angeles, CA, 26-31 March 2006, J. Phys. G **32**, S473 (2006), [nucl-th/0609062].

V. Koch, **A. Majumder** and J. Randrup, “Baryon-strangeness correlations: a diagnostic of strongly interacting matter” Proceedings of Quark Matter 2005, Budapest, Hungary, 3-9 Aug 2005, Nucl. Phys. A **774**, 841 (2006).

V. Koch, **A. Majumder** and J. Randrup, “Strangeness Trapping” Proceedings of Quark Matter 2005, Budapest, Hungary, 3-9 Aug 2005, Nucl. Phys. A **774**, 643 (2006).

**A. Majumder**, V. Koch and X.-N. Wang, “Two particle correlations in jets and triggered distributions in hot and cold matter”, Proceedings of Quark Matter 2005, Budapest, Hungary, 3-9 Aug 2005, Nucl. Phys. A **774**, 561 (2006).

**A. Majumder**, V. Koch and J. Randrup, “Baryon number and strangeness: signals of a deconfined antecedent”, Proceedings of the Workshop on Correlations and Fluctuations in Relativistic Nuclear Collisions, MIT, Cambridge, Massachusetts, 21-23 Apr 2005, J. Phys. Conf. Ser. **27**, 184 (2005), [nucl-th/0510037].

**A. Majumder**, “Dihadron fragmentation: in vacuum and in matter”, Proceedings of the Workshop on In-Medium Hadron Physics, University of Giessen, Germany, 11-13 Nov 2004, Acta Phys. Hung. A **27**, 97 (2006).

**A. Majumder**, “Dihadron fragmentation: in vacuum and in matter”, Proceedings of Hard Probes 2004, International Conference on Hard and Electromagnetic Probes of High Energy Nuclear Collisions, Ericeira, Portugal, 4-10 Nov 2004, Eur. Phys. J. C **43**, 259 (2005), [nucl-th/0503019].

**A. Majumder**, “The medium modification of the single and double fragmentation function”, Proceedings of GHP 2004, First Meeting of the APS Topical Group on Hadronic Physics, Fermi National Accelerator Lab., Batavia, Illinois, 24-26 Oct 2004, J. Phys. Conf. Ser. **9**, 294 (2005), [nucl-th/0501029].

**A. Majumder** and X. N. Wang, “High Pt hadron-hadron correlations”, Proceedings of Hot Quarks 2004, Taos, New Mexico, 18-24 Jul 2004, J. Phys. **G31**, S533 (2005), [hep-ph/0410078].

**A. Majumder**, “Dihadron fragmentation functions and high Pt hadron-hadron correlations”, Proceedings of Quark Matter 2004, Oakland, California, 11-17 Jan 2004, J. Phys. **G30**, S1305 (2004), [hep-ph/0404292] .

### In Compiled Volumes

J. Randrup, V. Koch and **A. Majumder**, “Baryon-Strangeness Correlations As A Diagnostic Tool,” Proceedings of Particles and Nuclei International Conference (PANIC 05), Santa Fe, New Mexico, 24-28 Oct 2005, AIP Conf. Proc. **842**, 95 (2006).

V. Koch and **A. Majumder**, “Equilibrium in heavy ion collisions”, Proceedings of 19th Winter Workshop on Nuclear Dynamics, Breckenridge, Colorado, 9-15 Feb 2003, [nucl-th/0305085].

C. B. Das, S. Das Gupta, and **A. Majumder**, “Parametrizing yields of nuclear multifragmentation”, Proceedings of 18th Winter Workshop on Nuclear Dynamics, Nassau, Bahamas, 9-15 Feb 2002,

**A. Majumder**, C. Gale, “Lepton pair production from a charged quark gluon plasma”, Proceedings of MRST 2001 (The 23rd Annual Montreal-Rochester-Syracuse-Toronto Conference on High Energy Physics), 15-18 May, 2001, The University of Western Ontario, London, Ontario, Canada, [hep-ph/0108169].

A.K. Dutt-Mazumder, C. Gale, **A. Majumder**, O. Teodorescu, “Squeezing lepton pairs out of broken symmetries”, Proceedings of INPC 2001 (International Conference on Nuclear Physics), 30 Jul - 3 Aug 2001, Berkeley, CA., [nucl-th/0108011].