

PAPERS IN PEER REVIEWED INTERNATIONAL JOURNALS:

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6. **C. Samanta** with R. Honda, M. Agnello, J. K. Ahn et al, "Missing-mass spectroscopy with the ${}^6\text{Li}(\pi^-, K^+)X$ reaction to search for ${}^6_\Lambda\text{H}$ ", Phys. Rev. C 96, 014005 (2017); [arXiv:1703.00623v2](https://arxiv.org/abs/1703.00623v2) [nucl-ex]
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11. **C. Samanta** with H. Sugimura, M. Agnello, J. K. Ahn et al., "Search for ${}^6_\Lambda\text{H}$ hypernucleus by the ${}^6\text{Li}(\pi^-, K^+)$ reaction at $p_{\pi^-} = 1.2 \text{ GeV}/c$ ", Phys. Lett. B729 (2014) 39; [arXiv:1310.6104](https://arxiv.org/abs/1310.6104)
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51. P.Mukherjee, P.Sen, I.Mukherjee and **C.Samanta**, “Performance of Compton suppressed p-type and n-type Ge gamma detectors”, Proceedings of D. A. E. Symposium on Nuclear and Solid State Physics, 25B, 113 (1982)

TALKS (INTERNATIONAL CONFERENCES/SYMPOSIA):

1. **Chhanda Samanta**, “Superheavy Nuclei to Hypernuclei: A Tribute to Walter Greiner”, (Invited Talk) 6th International Conference on New Frontiers in Physics (ICNFP 2017), Kolymbari, Crete, Greece, August 17-26, 2017
2. **C. Samanta**, “Multi-Strange matter”, Invited Talk, Erice, Italy Sept. 23, (2015)
3. “Strangeness: A new dimension in nuclear physics” (Invited talk), Symposium on Exciting Physics: quarks and gluons /atomic nuclei / biological systems/networks, Makutsi Safari Farm, South Africa, November 13- 20, 2011.
4. “Strange to superstrange nuclei”, (invited talk), 5th DAE-BRNS workshop on Hadron Physics, BARC, Mumbai, October 31-November 4, 2011.
5. “Multi-strange nuclei in spectator fragmentation reactions”, (Invited talk), International Conference on Nuclear Fragmentation 2011 (NUFRA2011), Kemer (Antalya), Turkey October 2 - 9, 2011.
6. “Superheavy to Superstrange nuclei”, (Invited talk), Advances in Nuclear Physics in Our Time”, Goa, India, Nov.28 - Dec.2, 2010.
7. “Generalised mass formula for non-strange, strange and multi-strange nuclei”, (Invited talk), XXII-nd Indian-Summer School on Strangeness Nuclear Physics (SNP2010), Rez/Prague, Czech Republic, September 7-11, 2010.
8. “ Ξ -binding in a generalized mass formula and the quark-meson coupling model”, (Invited talk), 10th International Conference on Hypernuclear and Strange Particle Physics “HypX”, “Ricotti” in Tokai, Ibaraki, Japan, Sept. 14-18, 2009.

9. "Hyperons in heavy ion collisions and neutron stars" (Invited Talk)
International Symposium on Heavy Ion Physics 2008 (ISHIP2008), GSI, Darmstadt, Germany, November 17-20, 2008.
10. "Alpha Decay Chains from Superheavy Nuclei" (Invited Talk)
International School Of Nuclear Physics, 30th Course, Heavy-Ion Collisions from the Coulomb Barrier to the Quark-Gluon Plasma, Erice-Sicily: 16 - 24 September 2008.
11. "Superheavy elements in the magic islands (Invited Talk)"
Fourth International Conference on Fission and properties of Neutron-rich Nuclei, Sanibel Island, Florida, November 11-17, 2007.
12. "A Mass Formula from Light to Hypernuclei", XXIX Mazurian Lakes Conference on Physics, "Nuclear Physics and the Fundamental Processes", Piaski, Poland, August 30 - September 6, 2005.
13. "Modified Bethe-Weizsacker mass formula with isotonic shift, new drip lines and hypernuclei", International Symposium on Exotic Nuclear Systems in Debrecen, Hungary, 20-25, June 2005.
14. "Mass Formulae From Normal to Hypernuclei", Carpathian Summer School of Physics 2005, "Exotic Nuclei and Nuclear/Particle Astrophysics", Mamaia-Constanta, Romania, June 13-24, 2005.
15. "Disappearance of $Z=82$ magicity near proton drip line", Nuclei at extreme of isospin and mass, IOP, Bhubaneswar, March 10- 22, 2003.
16. "A New Mass Formula and New Neutron and Proton Magic Numbers in Light Nuclei"
284. WE-Heraeus-seminar Symposium on Nuclear Clusters: from light exotic to superheavy nuclei, Rauischholzhausen, Hessen, Germany, Aug 5-9, 2002.
17. "Elusive SHE in the Exotic Island ", AAPT Fall 2001, Meeting of American Association of Physics Teachers, (Chesapeake Section), Richmond, VA, Nov.16-17, 2001
18. "Physics with loosely bound nuclei", International Symposium on Nuclear Physics, BARC, Mumbai, India, December 18-22, 2000.
19. "Is the 1.3 MeV excited state in ^{11}Li a signature of pygmy resonance?", International Workshop on Physics with Radioactive Nuclear Beams, Puri, India, January 12-17, 1998.
20. "Exotic nuclei: Perspective and recent experiments", D.A.E. symposium on Nuclear Physics, B.A.R.C., Mumbai, India, Dec. 21-24, 1998.
21. "Coulomb-Nuclear Interplay in Nuclear Breakup Reactions", The XIV RCNP OSAKA International Symposium on Nuclear Reaction Dynamics of Nucleon-Hadron Manybody System", OSAKA, Japan December 6-9, 1995.
22. "Review of Breakup and Knockout reactions", D.A.E. Symposium on Nuclear Physics, Andhra University, Waltair, India, Dec. 27-31, 242, (1986).
23. "Discrepancy between proton- and alpha-induced cluster knockout reactions", DAE Symposium on Nuclear Physics and Solid state Physics, Benaras Hindu University, Vanarasi, India, Dec. 27-31, (1982).

SEMINAR/COLLOQUIUM TALKS:

1. "Seeing invisible dark matter", Virginia Commonwealth University, Richmond, VA, Oct 23, 2015
2. "Strange nuclei and drip points", Goethe University, Frankfurt, Germany, July 02, 2015
3. "Seeing invisible dark matter", Lady Brabourne College, August 12, 2015
4. "Strange Matter Matters", VMI, USA, Sept. 25, 2014

5. "Effect of Strangeness on Neutron Drip line of Magnesium nuclei", Saha Institute of Nuclear Physics, Kolkata, July 31, 2014
6. "Mass formula and Superheavy nuclei", Lady Brabourne College, July 16, 2014
7. "Strange Matter Matters!", Saha Institute of Nuclear Physics, Kolkata, July 15, 2013
8. "Nuclei without neutrons and protons", Lady Brabourne College, Kolkata, June 26, 2013
9. "Bound strange nuclear systems without any neutrons and protons", University of Alabama at Huntsville, Aug.23, 2012
10. "Strange Nucleus", Alabama A&M University, Huntsville, Alabama, Aug.21, 2012
11. "Strangeness: A New Dimension in Nuclear Physics", Virginia Commonwealth University, March 23, 2012
12. "Strangeness: A New Dimension in Nuclear Physics", N.P.D., B.A.R.C., Trombay, Mumbai, Jan 12, 2011
13. "Multi-Strange Nuclei", GSI, Darmstadt, Germany, Oct.13, 2010
14. "Strange Matter Matters!", KIT, Karlsruhe, Germany, Oct. 05, 2010
15. "Strangeness: A New Dimension in Nuclear Physics", Johann Wolfgang Goethe Universitat, Sept. 30, 2010, <http://fias.uni-frankfurt.de>
<http://th.physik.uni-frankfurt.de/~warringa/kolloquium.html>
16. "Strange nuclei without any neutron and proton", Physics Department, Virginia Commonwealth University, Richmond, Virginia, USA, Sept. 3, 2010
17. "Discovery of the First Anti-Strange Nucleus", Saha Institute of Nuclear Physics, Kolkata, May 28, 2010
18. "A new mass formula for Strange and multi-strange nuclei", Physics Department, University of Richmond, Richmond, Virginia, USA, Sept. 9, 2009
19. "How to weigh a Neutron star?", Physics Department, University of Richmond, Richmond, Virginia, USA, Nov. 10, 2008
20. "The mystery of Neutron stars", Physics Department, Virginia Commonwealth University, Richmond, Virginia, USA, October 24, 2008
21. "Will attack of the Fission monster and live long?", Physics Department, University of Richmond, Sept. 05, 2007
22. "Will SHE survive attack of the Fission monster?", Physics Department, Virginia Commonwealth University, Richmond, July 26, 2007
23. "One mass formula for normal to hypernuclei", Osaka University, Japan, July 19, 2007
24. "Hypernuclear mass formula", Kyoto University, July 18, 2007
25. "SHE in the magic island", Saha Institute of Nuclear Physics, Kolkata, March 12, 2007
26. "Sailing in search of a Magic Island beyond the Sea of Instability", Physics Department, Virginia Commonwealth University, Richmond, February 17, 2006
27. "Generalized mass formula for normal to hyper-nuclei", Saha Institute of Nuclear Physics, Kolkata, May 24, 2005
28. "Nuclear Medicine: an application of nuclear physics in medical science", Saha Institute of Nuclear Physics, Kolkata, April 1, 2005
29. "Influence of shell-quenching far from stability line on the astrophysical processes" Saha Institute of Nuclear Physics, Kolkata, May 17, 2004
30. "New Magical Properties of the Nucleus" Goddard Space Flight Center, NASA, Greenbelt, Maryland, July 23, 2004
31. "Radioactive Ion Beam Accelerators: An Overview", At the SERC School, sponsored by the Department of Science and Technology, S.I.N.P., Kolkata, Feb 03-21, 2003

32. "Does $Z=82$ shell gap quench near the proton drip line?" Research Center for Nuclear Physics, Osaka University, Japan, November 21, 2003
33. "Magic Properties of Nuclei near Drip Lines ", Jefferson Lab, Newport News, USA, July 18, 2003
34. "New Magical properties of Nuclei ", Virginia Commonwealth University, Richmond, USA, July 11, 2003
35. "Exotica in Terra Incognita", Institute of Plasma Research, Ahmedabad, April 08, (2003)
36. "Exotica in Terra Incognita" Dhirubhai Ambani Institute of Information & communication Technology, Ahmedabad, April 07, (2003)
37. "Introduction To Nuclei Away From The Line Of Stability", At the SERC School, sponsored by the Department of Science and Technology, India, held at the Panjab University, Chandigarh, Feb 12-16, 2002
38. "Commonalities in Atomic and Nuclear Clusters", Gesellschaft fur Schwerionenforschung mbH, Darmstadt, Germany, August 21, 2002
39. "Magicity of Exotic Nuclei", Forschungszentrum Karlsruhe, Germany, August 12, (2002)
40. "Pygmy resonance in halo nuclei", Virginia Commonwealth University, Richmond, Virginia, USA, May 4, 2000
41. "Pygmy resonance in halo nuclei", Ohio State University, Columbus, Ohio, USA, May 12, 2000
42. "Soft dipole resonance in ^{11}Li ", University of Maryland, College Park, Maryland, USA, May 15, 2000
43. "Proton elastic scattering from $^{4,6,8}\text{He}$ and $^{6,7,9,11}\text{Li}$ ", MSU, East Lansing, Michigan, USA, May 31, 2000
44. "Deuteron breakup at extreme forward angle: evidence of Coulomb dissociation ?", RIKEN, Japan, June 26, 1995
45. "The continuum coupling effects in ^6Li excitation by inelastic particle scattering" , RCNP, Japan, June 20, 1995
46. "Breakup of light ions", Nuclear Physics: Challenges and Opportunities (IPA Seminar, sponsored by DAE and INSA) B.A.R.C., Bombay, India. June 1-3, (1994).
47. " ^6Li -target breakup reactions studied at low relative fragment energies", Institut fur kernphysik, Johannes Gutenberg University, Mainz, Germany, June 16, (1993).
48. " ^6Li -target breakup reactions at low relative fragment energies", NIKHEF-K, Amsterdam, The Netherlands, June 14, (1993)
49. "Breakup of light ion at small relative energy", T.I.F.R., Bombay, India. May 16, (1991).
50. "Puzzles in nucleus-nucleus collisions for nuclei with low breakup threshold" B.A.R.C., Bombay, India. May 17, (1991)
51. "Current topics in quasifree scattering", Workshop on Breakup phenomena in Nuclear physics, V.E.C.C. , Calcutta, India, Feb. 9, (1987).
52. "Proton Knockout reactions", S.I.N.P., Calcutta, India, (1980).