

Dr. Saumyadip Samui

Present Address

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Permanent Address

Vivekananda Palli, Link Road,
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West Bengal, 712601, India

Date of birth: 17th March, 1980

Nationality: Indian

Marital Status: Married

E-mail Address: ssamui@gmail.com

Present Position: Assistant Professor at Department of Physics, Presidency University, Kolkata, India from August 2013

Past Positions:

1. Post doctoral fellow at University of Kwazulu-Natal, Durban, South Africa from October, 2011 to July 2013
2. Post doctoral fellow (visiting) at IUCAA, Pune, India from August, 2011 to October 2011
3. Post doctoral fellow at SISSA, Trieste, Italy from October, 2009 to July, 2011

Broad area of interest: Star formation and associated feedback in high redshift galaxies, reionization, galactic outflows and metal enrichment of IGM, physical state of IGM, AGN activity in high-z galaxies, infra-red properties of galaxies, constraining neutrino mass from cosmological probe, physics of cluster of galaxies, measurement of Sunyaev-Zel'dovich effect in ACT data, Neural networks for obtaining photometric redshift, genetic algorithm, Cosmological simulations

Publications : Total Number of published paper 30 including 4 conference proceedings
Total citations 769 , H-index 15, g-index 23

Educational Details :

Degree	Year of Passing	University/ Institution	% of Marks	Remarks
Secondary	1996	West Bengal Board of Secondary Education	84.3	1st Division
High School	1998	West Bengal Council of Higher Secondary Education	83.1	1st Division
B. Sc. (Physics)	2001	Jadavpur University	78.8	1st Class, Rank 2nd
M. Sc. (Physics)	2003	IIT Kanpur	7.4 (CPI)	—

- Ph. D. from University of Pune, Pune, India, 2009;

Working institute : Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, India

Thesis Title : Physics of structure formation and intergalactic medium

Thesis Supervisors: Prof. Kandaswamy Subramanian , IUCAA, Pune, India
Prof. Raghunathan Srianand , IUCAA, Pune, India

**Scholarships/
Fellowships:**

- National Scholarship for rural students (class VIII), India, 1994.
- National Merit Scholarship in Secondary (Class X), India, 1996.
- National Merit Scholarship in Higher Secondary (Class XII), India, 1998.
- National Scholarship in Bachelor of Science, India, 2001.
- CSIR-UGC research fellow 2003-2008 (Qualified in national eligibility test (NET), 2003), India.
- INAF, Italy associate from November, 2009 to October 2011
- Associate of IUCAA, Pune, India from August 2014 to present
- Member of SKA India Consortium and SKAIC Science Committee

**Referring in
International
Journals:**

- Monthly Notices of the Royal Astronomical Society (MNRAS), Royal Astronomical Society, UK.

Media Coverage:

- *Zap goes a chunk of our cosmic past* : New Scientist Article on our work "Can cosmic rays heat inter-galactic medium", 29th June, 2005
- *Code shines a light on distant galaxies* : Nature-India research highlights of our Photometric redshift estimator code CuBANz, 17th Nov, 2016

**Teaching and
Other academic
activities:**

- Teaching MSc courses at Presidency University: General Theory of relativity, Advanced Classical Mechanics, Advance Astrophysics Laboratory Courses, Numerical methods and computational techniques
- Project supervisor of SKA bursary students at UKZN in December 2011 - February 2012
Student Name: Precious Sikhosana
Project : Type Ia Supernova and the accelerating Universe
- A course on "basic introduction to Latex" to the SKA bursary students at UKZN in December 2011
- Project supervisor of School students summer projects in 2004 and 2005 at IUCAA.
- Teaching assistanceship for graduate school at IUCAA on
 1. Galaxies: structure, dynamics and evolution in 2005
 2. Extra-galactic Astronomy I & II in 2008
- Participated in science popularization programs at IUCAA from 2004 to 2010
- Organiser of IUCAA Science day Quiz competition during 2005 - 2009

- Local organizing committee member of Young Astronomers' meet, IUCAA, Pune, India, 2005
- Participated in science verification programme for IUCAA Girawali observatory ; spent about 20 nights taking photometric and spectroscopic observations (long slit as well as Echelle) of high redshift quasars and analyzing the data
- Organiser of 'ACRU Thursday Seminar Series' in University of Kwazulu-Natal, 2012
- Organiser of 'ACRU Journal Club' in University of Kwazulu-Natal, 2013
- Local Organiser of Topical Conference on Gravity and Cosmology - Eastern Region at Presidency University, India, 9th Aug, 2014
- Resource person of School on Recent Trends and Developments in GR and Cosmology at CCSU, March 11-12, 2016
- Local Organiser of Advanced School on Gravitational Waves at Presidency University, India, 12-16th Dec, 2016
- Organiser of Meeting on Plasma Universe and its Structure Formation at IUCAA, India, August 30 - September 1, 2017
- Local Organiser of conference on "Universe after the first 200 million years Cosmic Dawn, Reionization and Post reionization with 21cm" at Presidency University, Kolkata, 11-13 December, 2017

**Research
Guidance to
Masters
Students**

- Student: Agniva Roychowdhury
Thesis Title: Possible Astrophysical Origin of void magnetic fields
Year: 2018
- Student: Prerana Biswas
Thesis Title: Classifying Stars and Galaxies using Back Propagation Neural Network
Year: 2017
- Student: Arnab Sarkar
Thesis Title : Understanding the redshift evolution of Lyman- α luminosity functions using SNe feedback star formation model
Year: 2016
- Student: Himadri Roy
Thesis Title: Matched filter search for ionized bubbles in 21-cm maps
Co-supervisor: Kanan Kumar Dutta
Year: 2016
- Student: Arnab Paul
Thesis Title : Spreading of Metals and Magnetic Fields in the Voids by Outflows from Void Galaxies
Year: 2015
- Student: Palash Nandi
Thesis Title : Characterization of a Charge Coupled Device and Analysis of the Deep Extragalactic Evolutionary Probe 2 (DEEP 2) Data
Co-supervisor: Suchetana Chatterjee
Year: 2015

- Student: Soumen Kumar Bera
Thesis Title : Effect of Massive Neutrinos in Cosmological Reionization
Year: 2014
- Student : Tapan Kumar Sasmal
Thesis Title: Variation of number of galaxies in presence of massive neutrinos in Universe
Year: 2014
- Student: Abhijit Mandal
Thesis Title : GRB rate in high redshift Universe
Year: 2014

**Externally
Funded Projects**

- Title : Study of galactic outflows and their effects on the inter galactic medium
UCG funded project for a period of two years starting from April, 2015, valued Rs. 6 lacs.
Details: I am the principle investigator of this project. Here, we proposed to build the models of outflows driven by both thermal gas and cosmic rays and study the metal pollution, magnetisation of the inter galactic medium and other dynamical effects of outflows on the IGM. The effect of cosmic rays on the thermal history of the Lyman- α forests would also be considered.
A paper has been published in MNRAS.

**Conferences and
workshops
participated :**

1. Workshop on high performance computing October 5 - 9, 2004, IUCAA, Pune, India.
2. XXIII Annual Meeting of Astronomical Society of India, February 21 - 24, 2005 Nainital, India
3. 29th International Cosmic Ray Conference, August 03 - 10, 2005, Pune, India
4. 9th Young Astronomers' Meet, November 29 - December 2, 2005, IUCAA, Pune, India
5. Introductory Workshop on Astrophysics, December 20 - 24, 2006, Mohanlal Sukhadia University, Udaipur, Rajasthan, India.
6. IUCAA-MPA workshop on 'Astrophysics and Cosmology', March 5 - 9, 2007, IUCAA, Pune, India
7. School on Astrophysical Fluid Dynamics, October 15 - 26, 2007, ICTP, Italy
8. Cosmology with the CMB and LSS, July 21 - August 31, 2008, IUCAA, India
9. Cosmological evolution in diffuse baryons: Reionization epoch to the present day, 30 November - 3 December 2008, Orange County, Coorg, India.
10. School on Astrophysical Turbulence and Dynamos, 20 - 30 April 2009, ICTP, Miramare, Trieste, Italy.
11. XXVth IAP Annual Colloquium "The Lyman alpha Universe", 6 - 10 July 2009, Paris.

12. First IUCAA Reunion Meeting - 2009, August 11 - 14, 2009, IUCAA, Pune, India.
13. Cosmological Reionization Meeting, 16 - 20 February 2010, Harish-Chandra Research Institute, Allahabad, India
14. Tercentenary of the Laplace-Runge-Lenz Vector, 23 - 27 November, 2011, Salt Rock, South Africa
15. Cape Town Cosmology School at STIAS, Cape Town, 15 - 28 January, 2012
16. UKZN-IUCAA mini workshop at UKZN, Durban, 10-11 April, 2012
17. India - South Africa Astronomy Workshop, 6 - 9 August, 2012, SAAO, Cape Town, South Africa
18. CHPC 2012 National Meeting at ICC, Durban, South Africa, 3-7 December 2012
19. SKA-KZN workshop: 12 December 2012, UKZN, South Africa
20. Conference on "High energy emission from AGN" at University of Kashmir, Srinagar, October 7-9, 2013
21. Workshop on "Galaxies and Cosmology" at NCRA, Pune, India during July 7-18, 2014
22. Topical Conference on Gravity and Cosmology - Eastern Region at Presidency University, India, 9th Aug, 2014
23. Workshop on Statistical Applications to Cosmology and Astrophysics, at ISI, Kolkata, 9-12 Feb, 2015
24. Topical Conference on Gravity and Cosmology - Eastern Region at IISER, Kolkata, India, 9th Sep, 2015
25. School on Recent Trends and Developments in GR and Cosmology at CCSU, March 11-12, 2016
26. CCSU Astronomy and Astrophysics School at CCSU, Assam, India, June 21 - July 12, 2016
27. Topical Conference on Gravity, Cosmology and Astrophysics - Eastern Region at Visva-Bharati, Santiniketan on September 24, 2016
28. Advanced School on Gravitational Waves at Presidency University, India, 12-16th Dec, 2016
29. Meeting on Plasma Universe and its Structure Formation at IUCAA, India, August 30 - September 1, 2017
30. Conference on "Universe after the first 200 million years Cosmic Dawn, Reionization and Post reionization with 21cm" at Presidency University, Kolkata, 11-13 December, 2017
31. The 36th Annual Meeting of the Astronomical Society of India (ASI), Osmania University, Hyderabad, 5 - 9 February, 2018
32. Introductory School on Galaxy Formation and a one day workshop at NISER, Bhubaneswar, 13-16 March, 2018

Invited talks at conferences and seminars :

1. *Can Cosmic Rays Heat the Intergalactic Medium?* : an oral presentation delivered at 29th International Cosmic Ray Conference, August 03 - 10, 2005, Pune, India.
2. *Biography of Stars* : A review lecture given to Masters degree students of Ferguson Collage, Pune, India as a part of their course, January 18, 2006.
3. *Global Star Formation Rate of the Universe* : an oral presentation delivered as a part of IUCAA-NCRA informal discussion group, September 23, 2005.
4. An demonstration on “Spectroscopy by IRAF” delivered to the Summer School students at IUCAA, 2006 as well as in 2007.
5. Demonstrations on “Spectroscopy and photometry by IRAF” and “LHea-soft the x-ray software” at Mohanlal Sukhadia University, Udaipur, Rajasthan, India, 2006.
6. *Reionization of the Universe* : A review lecture given to Presidency Collage, Kolkata, India as a part of their course work, January 30, 2007.
7. *Star formation, luminosity function and galactic outflows* : Informal astronomical talk delivered at SISSA, Italy, October 31, 2007.
8. *Constrained semi-analytical model of galactic outflows* : Cosmological seminar given at MPA, Germany, November 6, 2007.
9. *Semi-analytic models of galactic outflows* : oral presentation given in the workshop on Cosmology with CMB and LSS at IUCAA, August 16, 2008
10. *Lyman-a emitters in the high redshift universe* : invited talk at the Cosmological evolution in diffuse baryons: Reionization epoch to the present day conference at Coorg, India, on December 2, 2008.
11. *Cosmic ray driven galactic wind* : Oral presentation at School on Astrophysical Turbulence and Dynamos at ICTP, Italy on April 25, 2009
12. *Cosmic ray driven galactic outflows* : Journal Club talk given at SISSA, Italy on December 2, 2009
13. *Semi-analytical model of high redshift galaxy luminosity functions* : Contributed talk at the Cosmological Reionization meeting at HRI, Allahabad, India on 19 February , 2010
14. *Semi-analytical models of high redshift galaxy formation including Supernova feedback* : Oral presentation in UKZN-IUCAA mini workshop at UKZN, Durban on April 11, 2012
15. *Constraining neutrino masses using high redshift luminosity function* : ACRU Group meeting Talk at UKZN, Durban, on 18th May, 2012
16. *Global 21cm reionization signal - An overview* : ACRU Group meeting Talk at UKZN, Durban, on 3rd August, 2012
17. *Star formation in high redshift galaxies including supernova feedback* : Oral presentation in CHPC conference at ICC, Durban on December 6, 2012
18. *Feedback induced star formation in high redshift galaxies*, contributed talk at conference on “High energy emission from AGN” at University of Kashmir, Srinagar, October 9, 2013
19. *Understanding the high redshift universe: a semi-analytical approach* : invited talk given at workshop on Galaxies and Cosmology at NCRA, Pune on July 18, 2014

20. *Understanding the metal budget of the cosmos* : Contributed talk at workshop on Statistical Applications to Cosmology and Astrophysics, at ISI, Kolkata, 12 Feb, 2015
21. *Observational cosmology: A history of the Universe* : Invited talk at school on Recent Trends and Developments in GR and Cosmology at CCSU, March 11-12, 2016
22. *An overview of Galaxies* : Invited lecture series at CCSU Astronomy and Astrophysics School at CCSU, Assam, India, June 21 - 22, 2016
23. *CuBANz: A Photometric redshift estimator* : Invited talk at TCGCA-ER6, Visva-Bharati, Santiniketan on September 24, 2016
24. *Cosmic rays driven outflows from high redshift galaxies* : Invited talk at Meeting on Plasma Universe and its Structure Formation at IUCAA, India, August 30, 2017
25. *Probing galaxies responsible for reionization with the UV luminosity functions* contributed talk at conference on “Universe after the first 200 million years Cosmic Dawn, Reionization and Post reionization with 21cm” at Presidency University, Kolkata, 12 December, 2017
26. *Cosmic rays driven outflows from high-z galaxies*: Invited talk presented at the 36th Annual Meeting of the Astronomical Society of India (ASI), Osmania University, Hyderabad, 6 February, 2018.
27. *Outflows from high-z galaxies*: Invited talk given at Introductory School on Galaxy Formation and a one day workshop, NISER, Bhubaneswar, 16 March, 2018.

List of Publications (In Reverse Chronological Order)

1. *On the Star Formation Efficiency in High-redshift Ly- α Emitters* by Arnab Sarkar, **Saumyadip Samui**, 2019, Publications of the Astronomical Society of the Pacific, 131, 1001, 074101 impact factor 3.4
2. *A new technique for time series forecasting by using symbiotic organisms search* by Shanoli Samui Pal, **Saumyadip Samui**, Samarjit Kar, 2019, Neural Computing and Applications, <https://doi.org/10.1007/s00521-019-04134-8>, impact factor 4.2
3. *Efficient cold outflows driven by cosmic rays in high-redshift galaxies and their global effects on the IGM* by **Saumyadip Samui**, Kandaswamy Subramanian, Raghunathan Srikanand, 2018, Monthly Notices of the Royal Astronomical Society, 476, 1680, impact factor 5.2, citation 12
4. *Photo-z with CuBANz: An improved photometric redshift estimator using Clustering aided Back Propagation Neural network* by **Saumyadip Samui** and Shanoli S. Pal, 2017, New Astronomy, 51, 169, impact factor 1.4, citation 4
5. *Modelling the 21 cm Signal From the Epoch of Reionization and Cosmic Dawn* by T. Roy Choudhury, Kanan Datta, Suman Majumdar, Raghunath Ghara, Aseem Paranjape, Rajesh Mondal, Somnath Bharadwaj and **Saumyadip Samui**, 2016, Journal of Astrophysics and Astronomy, 37, 29 impact factor 0.3
6. *Star formation in high redshift galaxies including Supernova feedback: effect on stellar mass and luminosity functions* by **Saumyadip Samui**, 2014, New Astronomy, 30, 89, impact factor 1.4, citation 7

7. *Variability in Low Ionization Broad Absorption Line Outflows* by M. Vivek, R. Srikanand, P. Petitjean, V. Mohan, A. Mahabal & **S. Samui**, 2014, MNRAS, 440, 799, impact factor 5.2, citation 28
8. *Spatial Clustering of high redshift Lyman Break Galaxies* by Charles Jose, Kandaswamy Subramanian, Raghunathan Srikanand, **Saumyadip Samui**, 2013, Monthly Notices of the Royal Astronomical Society, 429, 2333, impact factor 5.2, citation 14
9. *SSDNA Cutter v0.0 a new in silico RFLP tool in C* by Somnath Chakravorty, **Saumyadip Samui** and Ratan Gachhui, 2012, Advances in Bioscience and Biotechnology, 3, 321, impact factor 1.8, citation 1
10. *Weighing neutrinos using high redshift galaxy luminosity functions* by Charles Jose, **Saumyadip Samui**, Kandaswamy Subramanian, Raghunathan Srikanand, 2011, Physical Review D, 83, 123518, impact factor 4.6, citation 9
11. *A search for debris disks in the Herschel ATLAS* by M. A. Thompson, D. J. B. Smith, J. A. Stevens, M. J. Jarvis, E. Vidal Perez, J. Marshall, L. Dunne, S. Eales, G. J. White, L. Leeuw, B. Sibthorpe, M. Baes, E. Gonzalez-Solares, D. Scott, J. Vieira, A. Amblard, R. Auld, D. G. Bonfield, D. Burgarella, S. Buttiglione, A. Cava, D. L. Clements, A. Cooray, A. Dariush, G. de Zotti, S. Dye, S. Eales, D. Frayer, J. Fritz, J. Gonzalez-Nuevo, D. Herranz, E. Ibar, R. J. Ivison, G. Lagache, M. Lopez-Caniego, S. Maddox, M. Negrello, E. Pascale, M. Pohlen, E. Rigby, G. Rodighiero, **S. Samui**, S. Serjeant, P. Temi, I. Valtchanov, A. Verma, 2010, A&A, 518, 134, impact factor 4.6, citation 18
12. *The Herschel-ATLAS: The dust energy balance in the edge-on spiral galaxy UGC 4754* by M. Baes, J. Fritz, D. A. Gadotti, D. J. B. Smith, L. Dunne, E. da Cunha, A. Amblard, R. Auld, G. J. Bendo, D. Bonfield, D. Burgarella, S. Buttiglione, A. Cava, D. Clements, A. Cooray, A. Dariush, G. de Zotti, S. Dye, S. Eales, D. Frayer, J. Gonzalez-Nuevo, D. Herranz, E. Ibar, R. Ivison, G. Lagache, L. Leeuw, M. Lopez-Caniego, M. Jarvis, S. Maddox, M. Negrello, M. Michalowski, E. Pascale, M. Pohlen, E. Rigby, G. Rodighiero, **S. Samui**, S. Serjeant, P. Temi, M. Thompson, P. van der Werf, A. Verma, C. Vlahakis, 2010, A&A, 518, 39, impact factor 4.6, citation 73
13. *Herschel-ATLAS: Blazars in the science demonstration phase field* by J. Gonzalez-Nuevo, G. De Zotti, P. Andreani, E. J. Barton, F. Bertoldi, M. Birkinshaw, L. Bonavera, S. Buttiglione, J. Cooke, A. Cooray, G. Danese, L. Dunne, S. Eales, L. Fan, M. J. Jarvis, H-R. Klockner, E. Hatziminaoglou, D. Herranz, D. H. Hughes, A. Lapi, A. Lawrence, L. Leeuw, M. Lopez-Caniego, M. Massardi, T. Mauch, M. J. Michalowski, M. Negrello, S. Rawlings, G. Rodighiero, **S. Samui**, S. Serjeant, J.D. Vieira, G. White, A. Amblard, R. Auld, M. Baes, D.G. Bonfield, D. Burgarella, A. Cava, D. L. Clements, A. Dariush, S. Dye, D. Frayer, J. Fritz, E. Ibar, R. J. Ivison, G. Lagache, S. Maddox, E. Pascale, M. Pohlen, E. Rigby, B. Sibthorpe, D. J. B. Smith, P. Temi, M. Thompson, I. Valtchanov, A. Verma, 2010, A&A, 518, 38, impact factor 4.6, citation 23
14. *Herschel ATLAS: The angular correlation function of submillimetre galaxies at high and low redshift* by S. J. Maddox, L. Dunne, E. Rigby, S. Eales, A. Cooray, D. Scott, J. A. Peacock, M. Negrello, D. J. B. Smith,

- D. Benford, A. Amblard, R. Auld, M. Baes, D. Bonfield, D. Burgarella, S. Buttiglione, A. Cava, D. Clements, A. Dariush, G. de Zotti, S. Dye, D. Frayer, J. Fritz, J. Gonzalez-Nuevo, D. Herranz, E. Ibar, R. Ivison, M. J. Jarvis, G. Lagache, L. Leeuw, M. Lopez-Caniego, E. Pascale, M. Pohlen, G. Rodighiero, **S. Samui**, S. Serjeant, P. Temi, M. Thompson, A. Verma, 2010, *A&A*, 518, 11, impact factor 4.6, citation 54
15. *The Herschel-ATLAS: Evolution of the 250 μ m luminosity function out to $z=0.5$* by S. Dye, L. Dunne, S. Eales, D. J. B. Smith, A. Amblard, R. Auld, M. Baes, I. K. Baldry, S. Bamford, A. W. Blain, D. G. Bonfield, M. Bremer, D. Burgarella, S. Buttiglione, E. Cameron, A. Cava, D.L. Clements, A. Cooray, S. Croom, A. Dariush, G. de Zotti, S. Driver, J. S. Dunlop, D. Frayer, J. Fritz, Jonathan P. Gardner, H. L. Gomez, J. Gonzalez-Nuevo, D. Herranz, D. Hill, A. Hopkins, E. Ibar, R. J. Ivison, M. J. Jarvis, D. H. Jones, L. Kelvin, G. Lagache, L. Leeuw, J. Liske, M. Lopez-Caniego, J. Loveday, S. Maddox, M. J. Michalowski, M. Negrello, P. Norberg, M. J. Page, H. Parkinson, E. Pascale, J. A. Peacock, M. Pohlen, C. Popescu, M. Prescott, D. Rigopoulou, A. Robotham, E. Rigby, G. Rodighiero, **S. Samui**, D. Scott, S. Serjeant, R. Sharp, B. Sibthorpe, P. Temi, M. A. Thompson, R. Tuffs, I. Valtchanov, P. P. van der Werf, E. van Kampen, A. Verma, 2010, *A&A*, 518, 10, impact factor 4.6, citation 58
 16. *Herschel-ATLAS: Dust temperature and redshift distribution of SPIRE and PACS detected sources using submillimetre colours* by A. Amblard, A. Cooray, P. Serra, P. Temi, E. Barton, M. Negrello, R. Auld, M. Baes, I. K. Baldry, S. Bamford, A. Blain, J. Bock, D. Bonfield, D. Burgarella, S. Buttiglione, E. Cameron, A. Cava, D. Clements, S. Croom, A. Dariush, G. de Zotti, S. Driver, J. Dunlop, L. Dunne, S. Dye, S. Eales, D. Frayer, J. Fritz, Jonathan P. Gardner, J. Gonzalez-Nuevo, D. Herranz, D. Hill, A. Hopkins, D. H. Hughes, E. Ibar, R.J. Ivison, M. Jarvis, D. H. Jones, L. Kelvin, G. Lagache, L. Leeuw, J. Liske, M. Lopez-Caniego, J. Loveday, S. Maddox, M. Michalowski, P. Norberg, H. Parkinson, J. A. Peacock, C. Pearson, E. Pascale, M. Pohlen, C. Popescu, M. Prescott, A. Robotham, E. Rigby, G. Rodighiero, **S. Samui**, A. Sansom, D. Scott, S. Serjeant, R. Sharp, B. Sibthorpe, D.J.B. Smith, M.A. Thompson, R. Tuffs, I. Valtchanov, E. Van Kampen, P. Van der Werf, A. Verma, J. Vieira, C. Vlahakis, 2010, *A&A*, 518, 9, impact factor 4.6, citation 109
 17. *The Herschel-ATLAS: Extragalactic Number Counts from 250 to 500 Microns* by D. L. Clements, E. Rigby, S. Maddox, L. Dunne, A. Mortier, C. Pearson, A. Amblard, R. Auld, M. Baes, D. Bonfield, D. Burgarella, S. Buttiglione, A. Cava, A. Cooray, A. Dariush, G. de Zotti, S. Dye, S. Eales, D. Frayer, J. Fritz, Jonathan P. Gardner, J. Gonzalez-Nuevo, D. Herranz, E. Ibar, R. Ivison, M.J. Jarvis, G. Lagache, L. Leeuw, M. Lopez-Caniego, M. Negrello, E. Pascale, M. Pohlen, G. Rodighiero, **S. Samui**, S. Serjeant, B. Sibthorpe, Douglas Scott, D. J. B. Smith, P. Temi, M. Thompson, I. Valtchanov, P. van der Werf, A. Verma, 2010, *A&A*, 518, 8, impact factor 4.6, citation 91
 18. *Herschel ATLAS: The cosmic star formation history of quasar host galaxies* by S. Serjeant, F. Bertoldi, A. W. Blain, D. L. Clements, A. Cooray, L. Danese, J. Dunlop, L. Dunne, S. Eales, J. Falder, E. Hatziminaoglou, D.H. Hughes, E. Ibar, M. J. Jarvis, A. Lawrence, M. G. Lee, M. Michalowski, M. Negrello, A. Omont, M. Page, C. Pearson, P. P. van der Werf, G.

- White, A. Amblard, R. Auld, M. Baes, D. G. Bonfield, D. Burgarella, S. Buttiglione, A. Cava, A. Dariush, G. de Zotti, S. Dye, D. Frayer, J. Fritz, J. Gonzalez-Nuevo, D. Herranz, R. J. Ivison, G. Lagache, L. Leeuw, M. Lopez-Caniego, S. Maddox, E. Pascale, M. Pohlen, E. Rigby, G. Rodighiero, **S. Samui**, B. Sibthorpe, D. J. B. Smith, P. Temi, M. Thompson, I. Valtchanov, A. Verma, 2010, *A&A*, 518, 7, impact factor 4.6, citation 42
19. *Cosmic ray driven galactic outflows in high redshift universe* by **Saumyadip Samui**, Kandaswamy Subramanian, Raghunathan Srianand, 2010, *Monthly Notices of the Royal Astronomical Society*, 402, 2778, impact factor 5.2, citation 31
 20. *Models of high redshift luminosity function and outflows : The dependence on halo mass function* by **Saumyadip Samui**, Kandaswamy Subramanian, Raghunathan Srianand, 2009, *New Astronomy*, 14, 591, impact factor 1.4, citation 12
 21. *Understanding the redshift evolution of the luminosity functions of Lyman- α emitters* by **Saumyadip Samui**, Raghunathan Srianand, Kandaswamy Subramanian, 2009, *Monthly Notices of the Royal Astronomical Society*, 398, 2061, impact factor 5.2, citation 20
 22. *Constrained semi-analytical models of Galactic outflows* by **Saumyadip Samui**, Kandaswamy Subramanian, Raghunathan Srianand, 2008, *Monthly Notices of the Royal Astronomical Society*, 385, 783, impact factor 5.2, citation 29
 23. *Probing the star formation history using the redshift evolution of luminosity functions* by **Saumyadip Samui**, Raghunathan Srianand, Kandaswamy Subramanian, 2007, *Monthly Notices of the Royal Astronomical Society*, 377, 285, impact factor 5.2, citation 42
 24. *Confinement in silicon nanowires: Optical properties* by S. Bhattacharya, D. Banerjee, K.W. Adu, **S. Samui**, S. Bhattacharyya, 2004, *Applied Physics Letters*, 85, 2008, impact factor 3.8, citation 41
 25. *Phonon confinement in oxide-coated silicon nanowires* by Somnath Bhattacharyya, **Saumyadip Samui**, 2004, *Applied Physics Letters*, 84, 1564, impact factor 3.8, citation 40
 26. *Two-time correlation for a noise-driven double-well oscillator in the Suzuki regime* by Suvadeep Bose, **Saumyadip Samui**, 2002, *Physica A*, 310, 85, impact factor 1.4, citation 0

List of conference proceedings (In Reverse Chronological Order):

1. Charles Jose, **Saumyadip Samui**, Kandaswamy Subramanian and Raghunathan Srianand "Weighing neutrinos using high redshift galaxy luminosity functions", *Proceedings of ICGC-Goa-2012*, 2014, *JPhCS*, 484, 2036
2. Clements, David; Robotham, Aaron; Omont, Alain; Lapi, Andrea; Pappageorgiou, Andreas; and 135 coauthors *The Herschel ATLAS: A Large Area Extragalactic Survey with Herschel* , 38th COSPAR Scientific Assembly. Held 18-15 July 2010 in Bremen, 2, 2010
3. **Saumyadip Samui**, Kandaswamy Subramanian and Raghunathan Srianand, "Can Cosmic Rays Heat the Intergalactic Medium?" *Proceedings of the 29th International Cosmic Ray Conference*. August 3-10, 2005, Pune, India., 9, 215 (2005).

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List of Catalogs (In Reverse Chronological Order):

1. VizieR Online Data Catalog: Low Ionization BALQSOs MgII and AlIII variability, M. Vivek, R. Srianand, P. Petitjean, V. Mohan, A. Mahabal, **S. Samui**, VizieR On-line Data Catalog: J/MNRAS/440/799, 2015

List of published codes (In Reverse Chronological Order):

1. CuBANz: Photometric redshift estimator, **Saumyadip Samui**, Shanoli Samui Pal, Astrophysics Source Code Library, record ascl:1609.010, 2016