

1. Details of the Teacher/ Academic:

Name & Date of Birth :	Parvin Sinclair 13.6.1956
Date of Joining in IGNOU:	2.6.1987
Current Designation :	Professor of mathematics
Pay Scale as on date :	
Qualifications :	Ph.D in Mathematics

2. Honour/Award/Fellowship/membership of Professional body/ Statutory body (internal/ external) received by the Teacher/ Academic: Nil

Name of the recipient,	Honour /Award/ Fellowship name	Agency name /Name of statutory body/ institution/ Apex body	Period

3. Books/BookChapter:

- Co-author/co-editor if any, title, place of publication, publisher, Year, page (no) s, ISBN N

SNo .	Name of Author1/ Editor 1, & Co- author (s)/ Co-editor (s) (if any)	Title of chapter/book	Place of publication	Publisher	Year	Total Pages	ISBN No.
1.	Sinclair,P-- Editor	Mathematics Textbook for Class IX		NCERT	2006	350	81-7450-489-3
2	Sinclair,P and Dikshit,GP-- Editors	Mathematics Textbook for Class X		NCERT	2007	344	9788174506344
3	P. Sinclair and 10 other authors	Mathematics-Exemplar Problems- Class IX		NCERT	2008	197	978-81-7450-850-8
4	P. Sinclair and 12 other authors	Mathematics-Exemplar Problems- Class X		NCERT	2009	236	978-81-7450-968-0
5	Wagner,D.R, Isoda,M., Sinclair,P and Warmeling,A. F.:	Mathematics-Chapter 2 in 'Textbooks for Sustainable Development A Guide to Embedding'	Delhi	Unesco-MGIEP	2017	29	

6.	P. Sinclair et al	Class VI textbook of mathematics		National Open School	1996		
7.	P. Sinclair et al	Class X textbook of mathematics		National Open School	2001		
8.	P. Sinclair et al	Class XII textbook of mathematics		National Institute of Open Schooling	2002		
9.	Sinclair,P	‘Quadratic forms over Polynomial Extensions of Rings of Dimension one’ In ‘Algebra and its Applications’ , (Lecture Notes in Pure and Applied Mathematics)	New York	Marcel Dekker	1984	6	9780824771652

4. Research Articles/Publications:

SNo.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	Parimala, R. and Sinclair, P.	Quadratic Forms over Polynomial Extensions of Rings of Dimension One	Journal of Pure and Applied Algebra	24	293-302	1982	0022-4049
3.	Parimala, R and Sinclair, P	A Localisation Principle for Quadratic Spaces over Laurent Extensions	Proceedings of the American Mathematical Society	89	202-204	1983	0002-9939
4.	Sinclair, P.	Stable Structure and Cancellation of Quadratic Forms over	Journal of Pure and Applied Algebra	37	315-323	1985	0022-4049

		Laurent Extensions of Rings of Dimension one					
5.	Sinclair, P.	Hermitian Forms Over Euclidean Rings	Journal of the Indian Mathematical Society.	53	115-125	1988	0019- 5839
6.	Sinclair, P.	Teaching Mathematics- the IGNOU Experience	Indian Journal of Mathematics Teaching	XXI (1)	36-39	1995	
7.	Sinclair, P. and Basu, S.	A Feedback Study on Mathematics Video Programmes	Proceedings of ICDE			1997	
8.	Parimala, R., Sinclair, P., Sridharan, R and Suresh, V	Anisotropic Hermitian Spaces Over the Plane	Math Zeitschrift	232 (4)	589-606	1999	0025- 5874
9.	Sinclair, P.	Learning to Teach Mathematics through the Distance Mode	Proceedings of SEMT,2001, Charles University, Prague		144-150	2001	
10.	Sinclair, P. and Varma, S.	A Re-look at a Mathematical Bridge,	Proceedings of the CASTME International Conference,2001	II	272-278	2002	
11.	Sinclair, P.	History as a Pedagogic Tool	Ganit Bharti	24	141-146	2002	0970- 0307

5. Policy Documents Reports/ Mimeos:

SNo.	Title	Institution/ Agency	Year
1.	Syllabus for Elementary Classes	NCERT	2005
2.	Syllabus for Secondary and Higher Secondary Classes	NCERT	2005

6. Book Review published : Nil

- 7. Presentation/Invited talk/Chair in National or International Seminar/Conference/ Workshops(Please do not mention if it is only participation without presentation)**

Please see Appendix A

- 8. Study Tour Organised/ Participated/Attachment Organized/Internship:**

SNo.	Details of the tour	Name of coordinating body	Duration
1.	Advanced Course in Curriculum Planning and Teacher Education	Institute of Education, University of London and IGNOU	Jan 9-March 26, 1991
2.	Studying the UKOU system	UKOU and IGNOU	2 weeks in April 1991.

- 9. Consultancy assignment (if any): Nil**

- 10. Details of Institution/ Government/ Industry / own Institution Sponsored Research Projects (including Programme Evaluation) and Amount (Both completed and ongoing): Nil**

- 11. Details of PhD and MPhil Scholars (including those awarded degree):**

SNo.	Name and enrolment no:	Year of registration	Year of completion/ award
1.	Hemlata Maurya, 112246536	2011	She discontinued in 2016
2.	Vandana Bansal 093754489	July,2009	Discontinued in Dec.,2013
3.	Ms. Namita Dhankar 093754281	July, 2009	Discontinued in Dec.,2013
4.	Mr. Nitin Mishra 100165454	Jan., 2010	Discontinued in Dec.,2013
5.	Mr. Navin Kumar Sharma 100165455	Jan., 2010	Discontinued in Dec.,2013
6.	Mrs. Y.U. Sitavani 112246386	Jan., 2011	Discontinued in Dec.,2013
7.	Ms. Nidhi 112246740	Jan., 2011	Discontinued in Dec.,2013

- 12. Details of Programmes/ Courses coordinated/written/ edited/ translated:**

SNo.	Program me	Course	Unit (print)/ Audio/ Video/ eSLM	Coordinated/Written/ Edited (content/ language/ format)/ Translated	Period
1.	BPP	Preparatory course in General mathematics	All units	Coordinated Transformed, with Dr. Patwardhan	1987-92 1987-88

			1 video	Vetted Hindi version Written content, script and presented, English and Hindi version	1988
			Audio: Relevance of Mathematics	Written content, script and presented, English version	1988
2.	BDP	Foundation in Science and Technology	1 unit	Transformed Vetted Hindi version	1987
			1 audio	Coordinated	1988
3.	BDP	Calculus	All 16 units	Coordinated Transformed, with Dr. Patwardhan Vetted Hindi version	1993-2007 1988
4.	BDP	Linear Algebra	All 15 units	Coordinated Transformed, with Dr. Patwardhan Vetted Hindi version	1988-2007 1988
			Video: Linear Transformations and Matrices	Written content, script and presented, English and Hindi version	1989-90
5.	BDP	Mathematical Methods	3 units	Transformed Vetted Hindi version	1989
6.	BDP	Abstract Algebra	All 15 units	Coordinated Transformed Vetted Hindi version	1989-2007, Oct.2014 till date 1990-91
			Video: Groups of Symmetries	Written content, script and presented, English and Hindi versions	1991
7.	BDP	Elementary Algebra	All 6 units	Coordinated Written Vetted Hindi version	1991- Jul 2007, Oct.2014 till date 1992

8.	BDP	Analytical Geometry	6 units	Coordinated Transformed Vetted Hindi version	1991- Jul 2007 1993
9.	BDP	Discrete Mathematics	3 units	Written Vetted Hindi version	1997-98
10.	BDP	Statistical Techniques		Transformed Vetted Hindi version	2002-03
11.	BDP and CTPM	Teaching of Primary School Mathematics	11 units Project Guide	Coordinated Transformed Vetted Hindi version Written	1993- Jul 2007 1994-96 1996
12.	CTPM	Learning Mathematics	16 units 2 Videos: Mathematics Comes Alive in the Primary Classroom, Working Mathematically in the Primary Classroom	Coordinated Transformed Vetted Hindi version Wrote content, and edited script	1993-July 2007, Oct.2014 till date 1997-2000 2001-2
13.	CHR	Human Rights: Evolution, Concepts and Concerns	1 unit	Written	1998
14.	MES (for JNV Senior Secondary Teachers)	Teaching and Learning Mathematics	5 units 10 units	Written Transformed	2002-3
15.	BPP	Revised Preparatory Course in General	3 units	Written Vetted Hindi version	2004-5

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		Mathematics			
16.	M.Sc (MACS)	Linear Algebra		Coordinated	2000-7
			All 6 units	Transformed	2008
17.	M.Sc (MACS)	Algebra (Wrap-around study guide)		Coordinated	2000- July 2007, Oct.2014 till date
			1 unit 4 units	Written Transformed	2009
18.	M.Sc (MACS)	Algebra		Coordinated	2000- July 2007, Oct.2014 till date
			7 units	Transformed	2018-19
19.	B.Sc General	Calculus		Coordinated	2016 till date
			5 units	Written Vetted Hindi version	2018
20.	B.Sc General	Real Analysis	2 units	Written Vetted Hindi version	2019
21.	B.Sc General	Algebra		Coordinated	2016 till date
22.	PHDMT (also a program me coordinat or)	Algebra		Coordinated	2000- July 2007, Oct.2014 till date
23.	PHDMT ED	All courses		Coordinated	2010-11, Oct 2014 till date

13. Training programmes designed and conducted, duration and dates:

Please see Appendix B

14. Details of Counselling sessions conducted:

SNo.	Programme	Course	Place	Dates	Duration	Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other)
1	BDP	MTE- 01,2,4,5	Delhi (Gargi	1989-90 1992	2 semesters 1 semester	F2F

			Colleg e)			
2.	BPP	PMT	Delhi (Tihar Jail)	1992-93	1 semester	F2F
3.	BDP/CTPM	AMT	EMPC		2 sessions	Teleconferencing
4.	CTPM/BDP	AMT	Delhi (ARS D Colleg e)	2000-2002	3 semesters	F2F
5.	BDP	MTE- 06		2019	4 sessions	Gyan Darshan
6.	BDP and CTPM	Several	EMPC	Not available		Gyan Vani

15. Details of Patents granted (if any): Nil

16. Contribution to IGNOU's corporate life: Member of several committees, and chair of some. However, I don't have all the details.

SNo.	Chairperson/ Member of Committee	Name of the Committee	Date/ period

17. Administrative position/s held in the University (even as in charge)

SNo.	Designation	Period
1.	Pro-Vice Chancellor	July 3 rd , 2007 to July 2 nd , 2010
2.	Pro-Vice Chancellor	August 4 th , 2010 to October 20 th , 2011
3.	Director, School of Sciences	August 9 th , 2005 to July 8 th , 2007
4.	Director, School of Computer and Information Sciences	January 19 th , 2004 to June 26 th , 2006

18. Any other contribution/information
Membership of Other Bodies

1. Life Member, Indian Mathematical Society.
2. Life Member, The Association of Mathematics Teachers of India
3. Member, Committee for Acquisition of Video Programmes for the Commonwealth of Learning, 1992.

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4. Member, Expert Committee for Design of Mathematics Component of Bachelors Degree in Elementary Education, CIE, University of Delhi.
5. Member, Academic and Resource Advisory Panel (ARAP), Department of Education, CIE, University of Delhi, 2000-2002.
6. Member, Governing Body, Ram Lal Anand College, University of Delhi, (April 2005 – April 2008).
7. Member, Governing Body, SP Mukherjee College, University of Delhi, (May 2006 – May 2007).
8. Member, Working Group on Open and Distance Learning, National Knowledge Commission, 2007.
9. Chairperson, Mathematics and Statistics Research Committee, XXXII Indian Social Science Congress, 2008.
10. Member, Departmental Advisory Board, DESM, NCERT (2008- 10).
11. Member, Governing Body, Rajdhani College, University of Delhi, (Sept. 2009- April 2011)
12. Member, Steering Committee for Indian National Presentation at International Congress for Mathematics Education-12, 2011-12
13. Member, Steering Committee on Elementary Education and Literacy for the 12th Five-year Plan, Planning Commission, 2011
14. Director, NCERT, Jan 2012-October 2014
15. Member, Management Board, Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research, Mumbai, 2012 till date.
16. Member, Faculty of Education, University of Delhi, June 2015-18.
17. Member, Governing Body, Satyawati College, University of Delhi, (April 2018-19)
18. Member, Governing Body, Lakshmi Bai College, University of Delhi, (April 2018-19)

Signature of Teacher**Signature of Director(SOS)**

Invited Talks

1. “Quadratic Forms Over Polynomial Extensions of Rings of Dimension One”, presented at the International Conference on Algebra and its Applications, IIT, Delhi, 1981.
2. “Quadratic Forms Over Polynomial Extensions of Rings”, presented at the Mathematics Colloquium, TIFR, Bombay, 1981.
3. “Structure of Quadratic Forms Over Laurent Extensions of Rings”, presented at National Seminar on Algebra and its Applications, Madras Institute of Technology, Madras, 1984.
4. “A Sustainable Way of Interactive Learning”, session conducted at IGNOU, New Delhi, March, 1992.
5. “Applications of Linear Algebra”, Aligarh Muslim University (AMU), Aligarh, August, 1994.
6. “Distance Education”, AMU, Aligarh, September, 1994.
7. “Distance Education – Methods and Techniques”, AMU, Aligarh, 1995.
8. “IGNOU – An Experiment”, AMU, Aligarh, 1995.
9. “The What, Why and How of Distance Education”, AMU, Aligarh, 1997.
10. “IGNOU – A Case Study”, AMU, Aligarh, 1997.
11. “Introduction to Generalised Inverses”, AMU, Aligarh, February, 1998.
12. “Distance Education – Concept, Method and Techniques”, AMU, Aligarh, 24th July, 1998.
13. “Applications of Ring Theory”, AMU, Aligarh, July, 1998.
14. “Distance Education”, AMU, Aligarh, August, 1998.
15. “Quadratic Spaces”, AMU, Aligarh, August, 1998.
16. “The Logic of Mathematics”, presented at a Seminar on Aspects of Learning Mathematics, LSR College, New Delhi, August, 1998.
17. “Communicating the Nature of Mathematics”, presented at a Seminar on Aspects of Teaching and Learning Mathematics in the Primary School, Central Institute of Education, Delhi University, January, 1999.
18. “Non-negative Matrices”, Refresher Course Workshop, Delhi University, April, 1999.
19. “Nature of Mathematics”, presented at a Seminar at Jamia Millia Islamia, New Delhi, May, 1999.

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20. “Problems Related to Word Problems”, presented at a Seminar at Jamia Millia Islamia, New Delhi, May, 1999.
21. “Distance Education and IGNOU”, Academic Staff College, AMU, Aligarh, September, 1999.
22. “Serre’s Conjecture”, AMU, Aligarh, September, 1999.
23. “Gröbner Bases – An Introduction”, AMU, Aligarh, December, 1999.
24. “Cancellation of Quadratic Spaces : A Survey”, 15th Annual Conference of the Ramanujan Mathematical Society, Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai, 2000.
25. “Generalised Inverses”, AMU, Aligarh, July, 2001.
26. “Quadratic Spaces”, IIT, Guwahati, 2002.
27. “Nature of Mathematics” and “Making the Learning of Mathematics Interesting”, National Institute of Defence Estates Management, Delhi, January, 2005.
28. “Proof in Mathematics” and “Mathematical Modelling”, Navodaya Leadership Institute, Dadri, July, 2006.
29. ‘Linear Algebra’, Jamia Millia Islamia, Delhi, July, 2007.
30. “New Initiatives in the Teaching of Mathematics at School Level”, Indian Social Science Congress, Mumbai, Dec., 2007.
31. “Issues and Challenges in Mathematics Education”, Conference on Mathematics Education, Lady Sri Ram College, University of Delhi, Feb. 2008.
32. “Mathematics—What, Why, Where?”, MATEIT-2008, University of Delhi, Sept. 2008.
33. “Transitional Phase in Learning Mathematics from School to College Level”, Lady Sri Ram College, University of Delhi, July 2010.
34. Keynote address at the North-East Regional Conference on Mathematics Education, IIT, Guwahati, Oct. 2011.
35. “Quality Enhancement of Secondary School Level Curriculum”, National Seminar on Quality of Secondary Education Towards Employment Generation, Chhatisgarh Board of Secondary Education, Oct. 2014.
36. “Curricular Issues in Higher Education”, Faculty Development Programme, KIIT Group of Institutions, January, 2015.
37. “Teacher Education in India — Contemporary Trends”-Keynote Address for National Conference on Teacher Education, SP Mukherji College, University of Delhi, February, 2015.

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38. “Bridging the Gap Between Secondary and Tertiary Education”, Conclave on Academic Reforms, NIT, Tiruchirapalli, April, 2015.
39. “Teaching and Learning Mathematics”, DIET, Leh, June, 2015.
40. “Learning Values Through Arts Education”, National Seminar on ‘Synergy of Education and Culture’, Nalanda Centre, University of Mumbai, September, 2015.
41. “Making the Teaching and Learning of Mathematics Interesting”, 8th National Teachers’ Science Congress, IISER, Pune, December, 2015.
42. “Developing Support Systems for Self-learning in Mathematics”, National Conference on Mathematics Teaching—Approaches and Challenges, Regional Institute of Education, NCERT, Mysore, December, 2015.
43. “Learning Mathematics in School”, National Conference on Emerging Trends in Science and Mathematics Education, Department of Education, University of Delhi, February, 2016.
44. “Mathematics—an Ogre, or a Friend Forever?”, Faculty of Physical Sciences, Shiv Nadar University, Greater NOIDA, November 2016.
45. “Teaching and Learning Mathematics in the ODL system”, V. Ganpathi Iyer Endowment Lecture, Conference of the Association of Mathematics Teachers of India, Atul, Valsad, December 2016.
46. Keynote address, National Consultation Meet on Transforming Mathematics Classrooms, NCERT, Delhi, January 2017.
47. “The Implications for a Teacher of Her Understanding of the Learner and of Mathematics”, National Conference on Innovations in Mathematics Education: Current Trends and Issues, Lady Shri Ram College for Women and NBHM, March 2017.
48. “Quality Assurance in Teacher Education through ODL”, Plenary Session, National Conference on Teacher Education through ODL: Challenges and the Road Ahead, IGNOU, March 2017.
49. “Some Views on Pedagogy for the New Age”, Brainstorming Conference on Education and Technology, organised by Maharashtra Knowledge Corporation Ltd. And TIFAC, IISER, Pune, November 2017.
50. “Developing Support Systems for Self-learning of Mathematics”, Udbhaavan Science Carnival 2018, organised by Teach For India, Delhi, February 4th, 2018.

Resource Person in Workshops/Training/Orientation Programmes

1. Orientation of IGNOU counsellors of all mathematics courses from 1988 to date.
2. National Workshop for Mathematics Teachers, Wales, UK, 1991.
3. Development of Course Material for Distance Education, organised by IGNOU, 1992.
4. Development of Course Material for Distance Education, organised by IGNOU, 1993.
5. Script-writing for Mathematics Video Programmes, organised by NCERT, 1993.
6. Workshop on Curricular Options for Class I Mathematics, organised by Centre for Science Education and Communication, University of Delhi, 1994.
7. Orientation of IGNOU counsellors in “Teaching of Primary School Mathematics” from 1996 onwards.
8. “Developing a Math Curriculum for Middle School”, organised by Eklavya, Bhopal, 1998.
9. Training of Trainers, organised by Eklavya, Bhopal, 1998.
10. Workshop for designing and developing the mathematics lessons of Class XI and XII, National Open School (NOS), New Delhi, 1996.
11. Training Master Trainers to Communicate Mathematics to Primary School Children, organised by DPEP, Haryana, 1999.
12. “Developing Programme briefs (leading to script) on Class 11th Maths Curriculum”, organised by Central Institute of Educational Technology, NCERT, New Delhi, February, 1999.
13. One-day Training Workshop for Mathematics Teachers from Class I to Class XII of Saraswati Bal Mandir, Gargi College, New Delhi, 1999.
14. Edited a special issue (Vol.III, No.1, 1999) of “Issues in Primary Education”.
15. Mathematics for Primary School Teachers, a two-day workshop organised by Vasant Valley Learning Centre, New Delhi, August, 2000.
16. Workshop for designing and developing the mathematics lessons of Class VIII, National Open School (NOS), New Delhi, 2001.
17. Workshop for designing and developing the mathematics lessons of Class VI, National Open School (NOS), New Delhi, 2002.
18. ‘Course Evaluation – Models of Revision, IGNOU, August, 2002.
19. Training of teachers of Cantonment Board Primary Schools on “Teaching Decimals and Measurements”, organised by National Institute of Defence Estates Management, Delhi Cantt, Delhi, October, 2002.
20. Judge at INTEL Science Fair, IIT Delhi, Jan., 2003.
21. Interactive Workshop with Navodaya Vidyalaya senior secondary mathematics teachers, organized by NVS at NLI, Dadri, Jan. 16th and 17th, 2003.
22. Session on “Encouraging Mathematical Learning” and “Algebra”, for the In-service Education Programme for Mathematics TGTs, organised by IASE, Jamia Millia Islamia, May, 2003.
23. NCERT workshop for developing tools for evaluation of Classes 6-8 Mathematics textbooks, June 16th and 17th, 2003.
24. NCERT workshop for developing tools for evaluation of Classes 9, 10 Mathematics textbooks, June 23rd and 24th, 2003.

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25. Designed a training workshop for the primary and middle school mathematics teachers of the Cantonment Board Schools, organised by National Institute of Defence Estates Management, Delhi Cantt., Delhi, Oct., 2003.
26. Training sessions in workshop listed in (25) above, on 'What is Mathematics?', 'Introducing Algebra', "Introducing Probability".
27. Conducted an editing workshop at IGNOU from 24th February to 9th March, 2004, for SCERT Raipur for the class VI Maths textbook.
28. Conducted a short workshop on 'Pedagogy of Mathematics' for the B. El. Ed. Students of LSR College, on 24.08.2004.
29. Member, Academic Committee, Episteme-I, International Conference (organised by HBCSE, TIFR, Mumbai), Goa, December, 2004.
30. Chief Advisor, Mathematics Syllabus Design Committee, 2005, NCERT.
31. Chief Advisor, Class IX Textbook Development Team, NCERT, 2005.
32. Member, Organising Committee, National Conference on Mathematics Education, Delhi, Dec., 2005.
33. Chief Advisor, Class X Textbook Development Team, NCERT, 2006.
34. Consultative meeting for finalising Kerala Curriculum Framework, March, 2009.
35. Organised the National Seminar on the Historical and Cultural Aspects of Mathematics Education, IGNOU, Dec. 2011.
36. Chairperson, Session on "Gaps in the Education System and Health Services", National Consultation on "Strengthening Women's Voices in Shaping the Post 2015 Agenda", organised by AIWEFA, July, 2015.
37. Chairperson, Technical Session on "Jain Mathematics and its Importance", International Conference on Science and Jain Philosophy, organised by IIT, Mumbai and Jain Vishva Bharati Institute, January, 2016.
38. "International Workshop on Embedding Concepts of Sustainable Development, Peace and Global Citizenship in School Curricula", organised by UNESCO MGIEP, June 28th-30th, 2016.
39. Chairperson, Technical session on "Pedagogy and Learning", Workshop on "Language and Learning", organised by Indian Institute of Advanced Study, Shimla, Oct. 6th-8th, 2016.
40. Member, Organising Committee, Discussion Meet on School Education, Indian Academy of Sciences, Bengaluru, August 18-21, 2017.
41. Moderator, Session on "Curriculum and Pedagogy", Discussion Meet on School Education, Indian Academy of Sciences, Bengaluru, August 18-21, 2017.
42. Chairperson, Keynote Lecture, "Mathematics Research and Teaching: A Transcultural History of the Circulation of Mathematical Ideas" and Review Talk 1, "Problem Solving Strategies", epiSTEMe 7, HBCSE, TIFR, Mumbai, Jan. 5-8, 2018.
43. Chairperson, and speaker, sessions on "The Design of Intended Curricula", Cambridge Mathematics Project, Institute of Mathematical Sciences, Chennai, August 23rd, 2018.