



INDIAN



MATHEMATICAL



SOCIETY

INDIAN MATHEMATICAL SOCIETY

(Founded in 1907; Reg. No. S-550, Delhi)

Registered Office: Department of Mathematics,
Savitribai Phule Pune University, Pune-411007

<http://www.indianmathsociety.org.in>

NEWSLETTER

NO. 52

August 2024



Facsimile of the Commemorative Postage Stamp on the 'Indian Mathematical Society' issued by the Department of Posts (Philately Division, Government of India,) to mark the completion of hundred years of the Society. Released on the Inaugural day of the Platinum Jubilee 75th Annual Conference of the Society on 27th December 2009.

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**THE INDIAN MATHEMATICAL SOCIETY (IMS)
NEWSLETTER NO. 52, August 2024**

**90th ANNUAL CONFERENCE OF THE IMS:
AN INTERNATIONAL MEET
December 23 - 26, 2024**

The 90th Annual Conference of the IMS: An international Meet will be held under the auspices of MIT World Peace University, Pune during December 23 to December 26, 2024 under the President-ship of Prof. Madhu Raka, NASI Senior Scientist Fellow, Panjab University, Chandigarh. Prof. P. P. Malavadar will be the Local Organizing Secretary of the Conference.

“The information about the conference is available on the website : <https://mitwpu.edu.in/notification/90th-annual-conference-of-the-indian-mathematical-society-an-international-meet>.

CALL FOR CONTRIBUTORY PRESENTATIONS:

The Indian Mathematical Society invites contributions for PAPER AND POSTER PRESENTATIONS for the 90th Annual Conference of the IMS - an International Meet. There will be paper presentation sessions for contributory papers. There will also be Poster presentation on the theme of the symposia. The **pdf and LaTeX** (both) files of abstract of such contributions can be submitted online through the link <https://forms.gle/UqZjnRHb581kLS5c7>. In case of any difficulty, contact Local Organizing Secretary at ims2024@mitwpu.edu.in

Please note that:

- The Abstract should be brief and should not exceed 250 words. The use of formulae and symbols should be kept minimum. Please use the Latex Template as source file available on the website <https://mitwpu.edu.in/notification/90th-annual-conference-of-the-indian-mathematical-society-an-international-meet> for the abstract. Full length papers are not required to be submitted.
- The last date of submission is **November 20, 2024** and all contributors will be informed about the acceptance of abstracts for presentation by **November 30, 2024**.

- After receiving the Letter of Acceptance, which will contain an Abstract Number in each case, complete the registration for the conference using the registration link available at <https://mitwpu.edu.in/notification/90th-annual-conference-of-the-indian-mathematical-society-an-international-meet>. The last date for registration is December 05, 2024.
- If a Person do not want to present any paper / poster but want to attend the conference he/she can register at any time before December 5, 2024.
- All contributors should be either life members of the IMS (this can be done online – visit the website of the IMS) or Annual member for the year 2024 or should take a Sessional Membership (for this visit Registration portal).
- Acceptance of a paper for presentation does not automatically imply its acceptance for publication in the Journal of The Indian Mathematical Society or in The Mathematics Student. In case an author wants a paper to be considered for publication in either of these periodicals, he/she should submit the same separately to the Editor concerned. (This can be done online - visit the website of the JIMS <https://www.informaticsjournals.com/index.php/jims/user/register>).

IMS Subject Classifications

- (A) Combinatorics, Graph Theory, Logic, Discrete Mathematics, etc.
- (B) Algebra, Number Theory, Lattice Theory and History of Mathematics
- (C) Real and Complex Analysis (including Special Functions, Summability and Transforms, etc.) and Teaching of Mathematics
- (D) Functional Analysis, Measure Theory, Probability Theory and Stochastic Processes, and Information Theory
- (E) Differential / Integral / and Functional Equations
- (F) Geometry and Topology
- (G) Numerical Analysis, Approximation Theory and Computer Science
- (H) Solid Mechanics, Fluid Mechanics, Astrophysics, Relativity and related areas
- (I) Mathematical Modelling, Bio-Mathematics, Operations Research, etc.

Award of Various Prizes for Research Papers Presentation:

In order to encourage and inspire the young and budding researchers in mathematics, the IMS organizes a Special Session of Paper Presentation Competition during its Annual Conferences for various Prizes to be awarded to the best research papers presented in different categories. This Special Session is organized as a part of the Academic Programme. Each of the eight prizes listed below carries a Certificate and a Memento. Interested researchers should submit their research papers (in pdf format), Abstract (not exceeding 250 words, in tex and pdf format), proof of age and CV along with the covering letter to The Academic Secretary, IMS via e-mail: acadsecrims@gmail.com. The last date of receiving applications is **August 31, 2024**. The details of the prizes, groups and areas are as follows:

1. **A. M. U. Prize:** Algebra, Differential Geometry and Functional Analysis.
2. **V. M. Shah Prize:** Real Analysis, Complex Analysis, Fourier Analysis, Harmonic Analysis, Approximation Theory and related areas.
3. **IMS Prize-group-1:** Discrete Mathematics (Combinatorics, Graph Theory, Posets), Lattice Theory, Set Theory, Logic, Number Theory and related areas.
4. **IMS Prize-group-2:** Geometry, Algebraic Geometry, Topology, Algebraic Topology, and related areas.
5. **IMS Prize-group-3:** Measure Theory, Probability Theory, Stochastic Processes, and related areas.
6. **IMS Prize-group-4:** Differential / Integral / Functional equations and inequalities, Special Functions, Numerical Analysis and related areas.
7. **IMS Prize-group-5:** Solid Mechanics, Fluid Mechanics, Electromagnetic Theory, Magneto-Hydrodynamics, Astronomy, Astrophysics, Relativity and related areas.
8. **IMS Prize-group-6:** Operations Research, Optimization, Computational Mathematics, Information Technology, Biomathematics, History of Mathematics and related areas.

Terms and Conditions for the applicants to participate in the Competition:

1. Only the Members of the Society are eligible for participation in the Competition.
2. The paper should be under the authorship of at most two authors and at least one of them should be below the age of 40 years as on 31st December 2024. However, the papers under single authorships will be preferred.
3. (i) The author(s) should give a declaration that the work is unpublished and has not been submitted for competition anywhere else.
(ii) The work must have been carried out in India.
4. One who is already awarded a prize in a certain area in the past is not expected to participate in the competition for the prize in the same area.

**90th Annual Conference of The Indian Mathematical
Society – an International Meet**

Salient features of the Academic Programme

MEMORIAL AWARD LECTURES:

- 1 **38th P. L. Bhatnagar Memorial Award Lecture:**
Prof. K. Sandeep, TIFR, Centre for Applicable Mathematics, Bengaluru.
- 2 **35th Hansraj Gupta Memorial Award Lecture:**
Prof. Kalyan Chakraborty, Professor, Department of Mathematics, HRI Prayagraj.
- 3 **35th S. Ramanujan Memorial Award Lecture:**
Prof. Tirthankar Bhattacharya, Professor, Department of Mathematics,
IISc Bangalore.
- 4 **35th V. Ramaswamy Aiyer Memorial Award Lecture:**
Prof. Ashish Upadhyay, Professor, Department of Mathematics, BHU Varanasi.

INVITED TALKS:

- 1 Prof. Pratima Panigrahi, Professor, Department of Mathematics, IIT Kharagpur.
- 2 Prof. Prajakta Nimbhorkar, Associate Professor, CMI Chennai.
- 3 Prof. B Rushi Kumar, Professor, Department of Mathematics,
VIT University, Vellore.
- 4 Surinder Pal Singh Kainth, Department of Mathematics, Panjab University,
Chandigarh.
- 5 Tapas Chatterjee, Associate Professor, Department of Mathematics, IIT Ropar.
- 6 Prof. S. K. Tomar, Vice Chancellor, J. C. Bose University of Science and Technology,
Faridabad.

SYMPOSIA (Theam & Convener)

- 1 Theoretical and Computational Mathematical Biology:
Dr. Prashant K. Srivastava, Associate Professor, Department of Mathematics, IIT
Patna.
- 2 Function Spaces and Integral Operators:
Prof. Pankaj Jain, Professor, Department of Mathematics, SAU, Delhi.
- 3 Data driven Machine Learning:
Prof. R Rakkiyappan, Professor, Department of Mathematics, Bharathiar Univer-
sity, Coimbatore.
- 4 Special Functions:
Prof. Subuhi Khan, Professor, Department of Mathematics, Aligarh Muslim
University.

Note: Speakers in each symposia are to be selected by the conveners in consultation with the Academic Secretary.

NOMINATIONS FOR ELECTION TO THE COUNCIL OF THE SOCIETY

The Council has nominated Prof. S. S. Khare, Formerly at North East Hill University, Shillong, for election to the office of the President of Society for a period of one year w.e.f. April 01, 2025.

The Council made the following nominations for office bearers of the Society for a period of three years w.e.f. April 01, 2025:

General Secretary: Prof. M. M. Shikare, Pune.

Administrative Secretary: Prof. B. N. Waphare, Pune

Academic Secretary: Prof. G. P. Raja Sekhar, IIT, Kharagpur.

Treasurer: Prof. M. M. Pawar, Jalgaon.

Editor-in-Chief, The JIMS: Prof. Pankaj Jain, Delhi.

Editor-in-Chief, The Math Student: Prof. G. P. Youvaraj, Chennai.

The Council also nominated the following three members to the Council for a period of three years starting from April 01, 2025:

Prof. Pallavi Mahale, NIT Nagpur

Prof. Punita Batra, HRI, Allahabad and

Prof. P. K. Sahoo, BITS-Pilani, Hyderabad Campus, Hyderabad

A member of the IMS can contest for membership to the Council of the IMS or to any other office for which there is a vacancy by following the procedure laid down in the following two paras.

He/She may approach to the Returning Officer, Prof. B. N. Waphare, Department of Mathematics, Savitribai Phule Pune University, Pune - 411007, Maharashtra, India on or before September 30, 2024.

In the context of (h) of the constitution of the IMS. If a member wishes to contest for any office of the council or as a member of the council (wherever applicable) his/her nomination should be supported by at least TEN life members individually and separately with the mention of their exact names as well as their exact unique membership numbers as per records of the IMS so as to reach the returning officer not later than September 30, 2024. Nominations submitted in the manner indicated the above shall be considered valid nominations. There shall be a scrutiny of the nominations in the light of above rule by the Returning officer.

In the context of (i) of the constitution of the IMS. The nominations made by the council with an indication made to that affect, together with other valid nominations made by the members of the society (following the procedure mentioned in the above para) shall be sent through e-mail by the Returning officer on the registered E-mail addresses of members of the society not later than October 12, 2024. The members should take a print out, complete the formalities and send it by registered post to the Returning officer so as to reach him latest by November 08, 2024.

The following rules (j) and (k) are modified in the lines of the constitution of the IMS for the purpose of information only.

(j) The Returning Officer shall collect all the ballot papers returned to him/her by the members up to November 15, 2024 and carry them to the venue of the Annual Conference, where they will be opened and counted by him in the presence of a Committee consisting of the President (or his nominee) and the three Secretaries. A simple majority shall determine the result of the election (in each case, the same determined by lot in case of equality of votes)

(k) The list of newly elected officers and additional members of the Council shall be announced at the General Body meeting held during the Annual Conference. The new Council shall assume charge of its office with effect from April 01, 2025.

NOTICE OF THE ANNUAL GENERAL BODY MEETING

The Annual General Body Meeting of The Indian Mathematical Society will be held on December 26, 2024 at 12:00 noon at MIT World Peace University, Pune (MH), India to consider the following agenda. All the life members of the Society are requested to kindly attend the meeting.

AGENDA

1. To confirm the Minutes of the General Body Meeting held on December 25, 2023.
2. To receive the report of the General Secretary.
3. To receive the report of the Academic Secretary.
4. To consider the Audited Statement of Accounts for the year 2023 – 2024 and the Budget for the Financial Year 2025 – 2026.
5. To receive the report of the Editor-in-Chief of the Journal of The Indian Mathematical Society for 2024.
6. To receive the report of the Editor-in-Chief of the Mathematics Student for 2024.
7. To consider the venue of the 91st Annual Session of the Society to be held in December 2025.
8. Announcement of the results of the following elections:
 - (i) President for 2025 – 2026.
 - (ii) Office bearers of the society for a period of three years w.e.f. April 01, 2025.
 - (iii) Three members of the Council for a period of three years w.e.f. April 01, 2025.
9. Any other item with the permission of the chair.

Prof. M. M. Shikare
General Secretary, IMS.

PERIODICALS PUBLISHED BY THE IMS

The Society publishes two periodicals: **The Journal of the Indian Mathematical Society** (JIMS; Print ISSN 0019-5839, Online ISSN 2455-6475) and **The Mathematics Student** (Print ISSN 0025-5742) both of which are quarterly. The details can be found on the website: www.indianmathsoc.org

Paper Submission:

The authors should prepare the manuscript in L^AT_EX by following the, ‘ Instruction to Authors ’ at <https://www.informaticsjournals.com/index.php/jims/ia>

The pdf of manuscript should be submitted to the Journal of Indian Mathematical Society online after registration at

www.informaticsjournals.com/index.php/jims/user/register

In case of any problem in submission of manuscript contact at

journal.ims1910@gmail.com

For the Mathematics student, manuscript can be submitted to the Editor-in-Chief on E-mail: msindianmathsociety@gmail.com

Subscriptions:

Annual subscription for the Journal / the Mathematics Student :

For each periodical

- Rs. 2500/- for Libraries of Educational Institutions in India - provided the subscription is direct.
- Rs. 3000/- for Libraries of Educational Institutions in India, if the subscription is through an agent who gives complete name and address of the subscriber. The supply will be made directly to the subscribing library.
- Rs. 12000/- for others or to the agents who do not supply the name and address of the end user.
- \$200/- for personal use or for Libraries outside India.

The agents are entitled to 15 % discount on their orders.

From the year 2012 onwards, the life Members are given online access to **The Mathematics Student**. Also the life members will be supplied with the soft copy of **The Mathematics Student**, instead of supplying the hard copy, for their personal use (not for circulation) at their E-mail address registered with the Society.

Those Members who have not registered their e-mail address are requested to register it online on imsadminsecretary@gmail.com

It may please be noted that the contents of **The Mathematics Student** will continue to be available on the Society’s website www.indianmathsociety.org and a physical copy of **The Mathematics Student** will continue to be available at the IMS Library (Ramanujan Institute of Advanced Study in Mathematics, Madras University, Chennai) as well as in the Registered Office of the Society (Department of Mathematics, S. P. Pune University, Pune 411 007) for reference during office hours.

IMS MEMBERSHIP DETAILS

1. Membership terms:

- (a) Applicant should be a graduate and should have interest in the Objectives of the IMS.
- (b) All such persons as the Council of the IMS may admit from time to time to membership shall be the members of the Society.
- (c) The Council of the IMS may refuse to admit to membership any person without assigning any reason for the refusal.
- (d) Member of good standing: A member is considered to be of good standing in a particular year if he/she has paid his/her Annual (or life) Membership fees by July 31 of that year.

2. There are three types of members of the Society:

- (a) **Life Members:** Any eligible person can be enrolled as a life member by applying on the prescribed form and by paying the membership fees as prescribed from time to time by the IMS.
- (b) **Annual members:** Any eligible person can be enrolled as an annual member by applying on the prescribed form and by paying the annual membership fees as prescribed from time to time by the IMS. This membership will come to end on March 31, irrespective of the date of paying the membership fees.
- (c) **Sessional Members:** Any person desirous of participating in the Annual Conference of the IMS will be enrolled as a sessional member by paying the membership fees as prescribed from time to time by the IMS. This membership is only for participating in one conference after paying the fees.

3. Rights and Obligations of the Members:

- (a) All Annual and Life members shall be entitled to receive communications about the activities of the Society and participate in its conferences.
- (b) A member with good standing shall attend the General Body Meeting and will be eligible to vote if necessary.
- (c) Only life members will be eligible to be elected as a member of the IMS Council.

4. Membership Fees:

With effect from January 1, 2021, the membership fees are as follows.

- (a) Life Membership fee: For Indian citizens Rs. 3000/- For members of the Societies having Reciprocity arrangement with the IMS, US \$ 100/- For others US \$150/- For members from SAARC countries - US \$ 50/-
- (b) Annual Membership fee: Rs. 500/- (US \$25/- for foreigners).
- (c) Sessional Membership fee: Rs. 300/- (US \$15/- for foreigners).

5. Application for Membership:

Application for membership should be made on the Membership form available on the IMS website. The completed membership form must contain the payment proof (screenshot containing the transaction Id) and can be sent to The Treasurer, IMS, (Email Id: treasurerindianmathsociety@gmail.com)

6. Business Correspondence and Payments:

All business correspondence be addressed to Prof. M. M. Pawar, Treasurer, IMS; 105, Shasaky Vasahat, Deopur, Dhule- 424002. All payments should be sent to Prof. M. M. Pawar, Treasurer, IMS by DD / payable at par cheque drawn in favor of **“The Indian Mathematical Society”** payable at **Aurangabad** (Maharashtra), India at the address mentioned as above. For bank details, see page 12.

IMS LIBRARY

The information pertaining to IMS library is available on the website www.indianmathsoc.org of the society.

APPEAL FOR SUPPORT TO THE IMS BUILDING COMPLEX -GANIT BHAWAN, PUNE

The Indian Mathematical Society (IMS) is the oldest Scientific Society of our country which was founded in the year 1907. It has been serving the cause of promoting mathematical research and teaching in the universities, colleges, research Institutes like IITs, IIERs etc. in the entire country. The Society had been instrumental in publishing the earliest work of the legendary mathematician Srinivasa Ramanujan which was instrumental in getting the attention of the world to his work in the beginning of his career. A large number of eminent Indian Mathematicians have been associated with the IMS and have also served the Society in the capacity of its President and/or other office bearers in the past. IMS continues to get the support mathematicians across the country. All its Council members work voluntary and do not receive any honorarium.

For a long time the IMS was planning for its own campus. I am glad to share that The Indian Mathematical Society has now purchased a plot of land near Pune Airport in Pune for having its permanent Headquarters. The land is about 44,000 sq ft in area with a cost of about Rs. 2.1 crore including registration and boundary fencing etc.

The Council of the IMS is now planning to develop a building complex (Ganit Bhawan) having all facilities like an office, an auditorium, a library, a computer center, meeting halls, and a guest house for small conferences, and so on. The main building on the campus is planned to be, 'a four storey structure' accommodating all of these requirements. The estimated cost of the project is about Rs. 13 crores.

It may be noted that the IMS is a non-profit organization and not supported by any Government organization and depends on the membership fees and a small amount of money coming from the subscription of its two periodicals. It is supported by the NBHM, DST and other agencies only for organizing its annual conferences. Therefore, the funds needed for developing this complex will depend mostly on the donations from well wishers and life members.

On behalf of the Council of the IMS, I am, therefore, making this appeal to all of you to generously support the IMS in building its complex by giving donations of any amount that you can conveniently give. It may be mentioned that donations received after Oct. 1, 2021 are eligible for exemption under Section 80 G of the Income Tax Act of the Govt of India. All donations will be acknowledged on the website of the IMS.

The donations can be made by bank transfer with the following details:

1. Name of the Account Holder : Indian Mathematical Society.
2. Account No. : 0981000100312287
3. Name of the Bank : Punjab National Bank.
4. Branch Name and Address : Adalat Road Branch, Aurangabad - 431001
5. IFSC Code: PUNB 0375900

Alternately donations can also be sent either in the form of Cheque/Draft (in the name of Indian Mathematical Society, payable at Aurangabad, Maharashtra) to: Prof. M. M. Pawar, Treasurer, IMS, 105, Shasakiy Vasahat, Deopur, Dhule - 424002. I am sure your generous help will strengthen the Society to serve the cause of mathematics more efficiently.

Prof. M. M. Shikare,
General Secretary, IMS

Guidelines for acceptance of Donations for academic programs of the Society:

The donation amount will not be less than Rupees Five Lacs. (There could be an upward revision of this amount from time to time).

The donor may be an individual or a trust or a group of individuals.

The Indian Mathematical Society will solely and independently own the amount donated to it.

A prospective donor should approach the General Secretary of the Indian Mathematical Society with a Offer. Keeping with the spirit of this Policy Guidelines and if so felt necessary, referring to the Council whether the proposal be negotiated or not, in his wisdom, the General Secretary will negotiate the terms and conditions for each donation proposal and will put it before the Council for its consideration and approval. The Council will deliberate on the proposal, and after modifications, if any, may accept the proposal through a special resolution with specific details mentioning the terms and conditions. This will be published in the IMS News Letter after the Donor agrees to the resolution of the Council.

Ordinarily during every Annual Conference of the Society there are several Invited Lectures and Symposia running in parallel sessions. One of these Invited talks / symposia may be marked as, "sponsored by ..." based on the donation received. This program may be arrange in a parallel session during the conference.

Notwithstanding the above,

(A) An offer of a donation with a stipulated purpose (not as part of the corpus), may be accepted by the Council on its merit.

(B) An offer of a donation of any amount in general, without any stipulated conditions, may be accepted by the Council on its merit as a part of the General Purpose Corpus.

The Council reserves its right whether or not a particular donation be accepted.

Current Council
(1st April 2024 – 31st March 2025)

S. No.	Office	Name	Address
1.	President	Madhu Raka	NASI Senior Scientist Fellow, Department of Mathematics, Panjab University, Chandigarh - 160014 e-mail: mraka@pu.ac.in
2.	Immediate Past President	R. Balasubramanian	Former Director, The Institute of Mathematical Sciences (IMSc), Chennai - 600113 e-mail: balu@imsc.res.in
3.	General Secretary	M. M. Shikare	Formerly at Centre for Advanced Study in Mathematics, S. P. Pune University, Pune - 411007 e-mail: gensecims@gmail.com
4.	Administrative Secretary	B. N. Waphare	Centre for Advanced Study in Mathematics, S. P. Pune University, Pune - 411007. e-mail: waphare@gmail.com
5.	Academic Secretary	G. P. Raja Sekhar	Department of Mathematics, IIT Kharagpur, Kharagpur - 721302. e-mail: acadsecrims@gmail.com
6.	Treasurer	M. M. Pawar	Formerly at K. B. C., North Maharashtra University, Jalgaon. e-mail: treasurerindianmathsociety@gmail.com
7.	Editor-in-Chief, The Journal of the Indian Mathematical Society	Peeyush Chandra	Professor (Retired), I.I.T. Kanpur Present address: B 603, Vicenza Highbreeze, Vadodara - 390012 e-mail: journal.ims1910@gmail.com
8.	Editor-in Chief, The Mathematics Student	G. P. Youvaraj	Professor (Retired), Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai - 600005 e-mail: msindianmathsociety@gmail.com
9.	Librarian	M. Pitchaimani	Director, Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai - 600005 e-mail: mpitchaimani@yahoo.com
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11.	Council Member	Pratulananda Das	Department of Mathematics, Jadavpur University, Jadavpur Kolkata – 700032. e-mail: pratulananda@yahoo.co.in
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This Newsletter is Published by Prof. M. M. Shikare, General Secretary, The Indian Mathematical Society.