



Department of Mathematics

Indian Institute of Science · Bengaluru

ESTABLISHED 1956 · SEVENTY YEARS OF MATHEMATICS

Mathematics *at* IISc.

India's foremost department of pure & applied mathematics. Its 29 faculty earned doctorates at *Princeton, Cambridge, Caltech, Yale, Chicago, UC Berkeley, Stony Brook, Rutgers, Johns Hopkins, Wisconsin, Michigan, Purdue, Brandeis, UC Santa Barbara, Maryland, Indiana, Washington, Courant & EPFL*, and India's *TIFR, ISI, HRI, IISc, & IIT*.

1956
FOUNDED

29
FACULTY
+ emeriti & honorary

243
PHD ALUMNI
since 1962

125
POSTDOCS
20+ in residence

1,517
SEMINARS
since 2007

152
SEMINARS
IN 2024 alone

RESEARCH

- Algebra & Number Theory**
Langlands programme · Iwasawa theory · automorphic forms
- Partial Differential Equations**
Elliptic & variational · homogenization · viscosity solutions
- Discrete Mathematics & Combinatorics**
Algebraic & enumerative · root systems · Schubert calculus
- Representation Theory**
Lie & Kac–Moody algebras · quantum groups · current algebras
- Logic & AI for Mathematics**
LeanAide · auto formalisation · automated theorem proving
- Analysis** *Harmonic Analysis · operator theory · several complex variables · positivity and matrix analysis*
- Geometry & Topology**
Kähler–Einstein manifolds · Teichmüller theory · Heegaard Floer
- Probability & Applications**
Random matrices · stochastic geometry · math finance
- Mathematical Physics**
Statistical mechanics · nonlinear dynamics · integrable systems
- Mathematical Finance**
Options · portfolios · credit risk · stochastic models

RECOGNITIONS

- selected honours · this decade*
- Director of IISc · *A Mathematician leads the institute* **2020–**
 - Shanti Swarup Bhatnagar Prize **2022**
 - Vigyan Yuva SSB Award **2024**
 - Infosys Prize · Mathematical Sciences **2022**
 - ICM Invited Speaker **2022**
 - LMS Whitehead Prize **2023**
 - Frontiers of Science Award · ICBS **2023**
 - J. C. Bose National Fellowship **2022**
 - Swarnajayanti Fellowships · DST ×2 **'20–21**
 - Homi Bhabha Chair **2023**
 - ICTP Simons Associate, Trieste **'25–27**
 - ICTP Junior Associates **'21–28**
 - Ganit Ratna Award ×3 **'20–26**
 - Academy Fellows × 10+ · INSA · IASc · NASI **'20–26**

SEMINAR CULTURE

7+ series · 1,500+ talks since 2007
Algebra–Combinatorics · Geometry–Topology · Number Theory · Analysis · APRG · Bangalore Probability · Lean–Math–AI. Speakers from **50+ international institutions**: Princeton, MIT, Berkeley, ETH Zürich, Oxford, Cambridge, Bonn, Max Planck, Rutgers, TIFR, ISI & 15+ countries.

FPSAC 2022 · ICM SATELLITE

34th International Conference on Formal Power Series & Algebraic Combinatorics
Hosted by the Department, a satellite of ICM 2022.

ALUMNI WORLDWIDE

243 PhDs trained since 1962
Now faculty at *IITs, IISERs, ISI & NISER*, and abroad at *ETH Zürich, Technion & CIMAT*.



“ A global crossroads of mathematics, where leading voices from across the world have spoken ”

PROGRAMMES

Ph.D. · Integrated Ph.D. B.Tech · B.Sc

APPLY

iisc.ac.in/admissions

SUPPORTED BY

UGC · DST-FIST · UGC-CAS

DEPARTMENT OF MATHEMATICS