



INSTITUT de MATHÉMATIQUES de MARSEILLE

Institute of Mathematics of Marseille

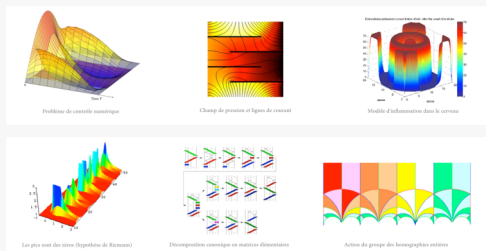


The institute of mathematics of Marseille (I2M) is a state research center (UMR 7373) of the CNRS (National Center for Scientific Research) linked with Aix-Marseille Université and the École Centrale de Marseille.



SURFACE

Around 6 700 m² of premises on the campuses of Château-Gombert, Luminy and St-Charles.

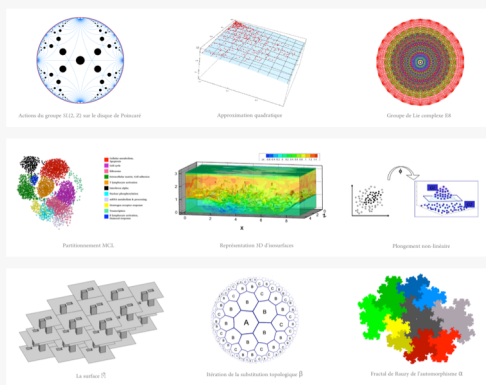


FINANCIAL RESSOURCES

Endowment of institutional partners: 725k€
Own-resources (contracts,...) : 2.550k€
Total funding (2019) : 3.275k€

ANNUAL PUBLICATIONS

Around 275 publications per year in international journals
Around 45 in international peer-reviewed conferences



AREAS OF RESEARCH

The institute is divided into 5 scientific groups decomposed themselves into 10 thematic teams:

Applied Analysis (AA)

Arithmetic, Geometry, Logic and Representations (AGLR) - 3 teams:

- Arithmetic and Information Theory (ATI)
- Logic of Programming (LDP)
- Representations of Reductive Groups (RGR).

Analysis, Geometry, Topology (AGT)

Mathematics of the Random (ALEA) - 4 teams:

- BioMaths Alea (BMA) - 2 thematics: Mathematics and Algorithmics for Systems Biology (MABioS) and Mathematics, Evolution, Biology (MEB)
- Probabilities (PROBA)
- Signal and Image (SI)
- Statistics (STA)

Geometry, Dynamics, Arithmetic, Combinatorics and their interactions (GDAC)

INTERACTIONS WITH ITS SOCIOECONOMIC OR CULTURAL ENVIRONMENT

- Partners : Airbus - AMIES - AOPS Conseil - CEA Cadarache (IRFM) - Astus - ATMEL - AXA - British Telecom - Dassault Aviation - DGE - EDF - EtherTrust - EURATOM - ExLog - Gemalto - Gemplus - Genesis - Génoscope - IFP - INRA Avignon - INRIA (ITER project) - IPSN - IRD - IRSN - Oberthur - OR2S - Prim'Vision - ProGeLife - PSA Peugeot-Citroën - Renault - Résurgences - SCOR - Pôle SCS - SESIN - SMAI - SOPRA - STILOG - STMicroelectronics - STS - Telecom ParisTech - Thales - TOTAL
- PhD students CIFRE (2 to 3 conventions per year)
- Meetings SAIT Sud Est
- Business Maths Study Weeks (SEME)
- Meetings Univ./Companies YACCRYPTED (Cryptography)
- Forum AMUSEC (Cybersecurity)
- Company creation (XEGEN), associations (AEEB, Acrypta), Water Observatory for the South region. Towers-Watson and BP2S contracts.
- Software development, Databases, ToolBox : ARALIA - ARCANA - CALIF3S - Cytoscape - ECHIDNA - GINsim - LEA Xtract - ITFAT - SAGE - Combinat - Tbrowser, Interface Smart Lungs, ...
- First Support Exploration Projects (PEPS), INSERM projects (PharMathTubule), Cancero-pôle PACA (PROCAN 2, UltraSPEC, PAIR Pancreas), South Region (APEX), ITMO Plan Cancer.
- Activities at traineeships HIPPOCAMPE (Laboratory Pythéas of IREM Marseille), at the annual *Fête de la Science* stands.
- Associations *Maths en Jeans*, *Maths pour Tous*, *PiDay*, *Mathématiques Vagabondes*, ...
- General Public Conferences (*Treize Minutes Marseille*, *CIRM*)
- Mathematics Club of Marseille, Workshops *Les Cigales* (for High School girls), Seminar *Kécékssa*.
- Member of the SFERE Provence Federation and of the GDS AuDiMath of the CNRS.

INTERNATIONAL

- Jean-Morlet Chair (2 chairs per year)
- 5 Excellence institutes: Archimède, IA Santé Laemec, Imaging, ISFIN (nuclear), MarMaRa
- 2 Convergence institutes: CENTURI (living systems), ILCB (language, communication, brain)
- 3 european projects : EJP RD (Rare diseases), ERC HOLOGRAM (Holomorphic dynamics), QUANTGMC (Quantum physics)
- 2 IRN (ex-GDRI) : GE2MI (Euro-Maghreb), Singularities (with Japan, Vietnam)
- 7 IRL (ex-UMI) : CMM (Chile), CRM (Canada), LaSol (Mexico), Moivre (UK), PIMS (Canada), PONCELET (Russia), Yoccoz (IMPA, Brasil)
- 7 Networks and Programs : TraX (International), EuroFusion (European), GEAR (USA), MATH-AmSud (South america), RFBM (Brasil), UFI/UIF (Italia), NIM3D (USA)
- 6 ANR projects (in coordination, partnership and participation)
- 17 Research Groups (GDR)
- 5 AMIDEX projects : BIFROST, ForReal, Modlm4MF, RADINET, SMART-NET (Biology)
- Partnerships Hubert Curien (PHC), CIMPA
- Hosting programs for foreign students and doctoral students (Algeria, Germany, Australia, Austria, Brasil, Burkina-Faso, Cameroon, Chile, Colombia, Côte d'Ivoire, India, Iraq, Iran, Italia, Lebanon, Morocco, Mauritania, Mexico, Palestine, Paraguay, Russia, Senegal, Syria, Thailand, Tunisia, UK, Uruguay, USA, Vietnam, Taiwan,...)
- Organization of numerous international symposia and conferences (holding of an annual thematic month at the CIRM)
- I2M Speakers frequently invited abroad
- Welcoming many foreign researchers (Belgium, Brasil, Canada, Chile, China, South Korea, Spain, Hungary, India, Israel, Italia, Japan, Mexico, the Netherlands, Poland, Russia, Swiss, Tunisia, UK, USA,...)
- Expertise and consultancy with european and international organizations (CEE, ASF, NSF, CRSNG, Hong-Kong univ., Macquarie univ., Fondcyt-Conicyt, Capes-Cofe-cub, NOSR, UQAM, Actions Marie Curie, INdAM-COFUND Marie Curie, ERC, PICS,...).

STAFF

160 permanent members (Researchers CNRS, Associate Professors and Professors AMU, ECM, USTV (including 4 at Centrale Marseille, 2 at USTV)
60 Phd students (22 thesis defences per year)
20 postdoc and ATER (annual average)
Around 10 to 15 foreign researchers/year
15 engineers, administrative and technical staff

RESEARCH UNIT

UMR 7373
Centre National de la Recherche Scientifique (CNRS)
Aix-Marseille Université (AMU)
École Centrale de Marseille

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