



## Société Mathématique de Tunisie

### Newsletter: Janvier 2018

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#### NEWS

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- MAJDI BEN HALIMA A BRILLIANT MATHEMATICIAN TURNED OFF AT EARLY AGE: BY ALI BAKLOUTI  
<http://www.tms.rnu.tn/cv/mbh.pdf>
  
- Vidéos des conférences d'Ivar Ekeland à Tunis:  
<https://www.youtube.com/watch?v=8381exkzZoI>  
<https://www.youtube.com/watch?v=1E73hDOirUY>
  
- The Ramanujan Prize for young mathematicians from developing countries has been awarded annually since 2005. The Prize is funded by the Department of Science and Technology of the Government of India (DST). It is administered jointly by the Abdus Salam International Centre for Theoretical Physics (ICTP), the International Mathematical Union (IMU), and the DST.  
The Ramanujan Prize is usually awarded to one person, but may be shared equally among recipients who have contributed to the same body of work. The Prize is awarded annually to a researcher from a developing country who is less than 45 years of age on 31 December of the year of the award, and who has conducted outstanding research in a developing country.  
The deadline for receipt of nominations is 1 February 2018. Nominations can only be made by using the online system. See <https://e-ramanujan.ictp.it/nominator>
  
- **Les revues MSP:** Les revues [MSP](#) (Mathematical Sciences Publishers) sont désormais accessibles librement via le portail Math jusqu'au 31 mars 2018.  
Il s'agit de :
  - Innovations in Incidence Geometry Algebraic, Topological and Combinatorial (à venir)
  - Tunisian Journal of Mathematics (à venir)
  - Algebra & Number Theory
  - Algebraic & Geometric Topology
  - Analysis & PDE
  - Annals of K-Theory
  - Communications in Applied Mathematics and Computational Science
  - Geometry & Topology
  - Involve, a Journal of Mathematics
  - Journal of Software for Algebra and Geometry

- Mathematics and Mechanics of Complex Systems
- Pacific Journal of Mathematics

➤ **International Master in Mathematical Physics**

Institut de Mathematiques de Bourgogne Universite de Bourgogne. Dijon, France

Academic year: 2018-2019

The Department of Mathematics of the Universite de Bourgogne offers in a one- or two-year master program in Mathematical Physics.

Advanced students may be admitted to the 2nd year of the Master.

Students who will successfully complete the M.Sc. program will be encouraged to apply to one of the Ph.D. fellowships that will be available for pursuing their studied in Dijon at the doctorate level.

The main aim of this program is to provide advanced lectures on the mathematical methods of modern theoretical physics in the framework of mathematics cursus. We offer lecture courses for the students with background in mathematics or mathematical physics giving an introduction to the mathematical methods used for such branches of theoretical physics as quantum field theory, statistical mechanics, general relativity, gauge theories, string theory etc.

The coursework will cover different fields of mathematics (algebra, geometry, analysis) and will highlight their applications to the problems of theoretical and mathematical physics.

The student will be integrated from the very beginning into the mathematical physics group of the IMB (Institut de Mathematiques de Bourgogne) and will have to prepare by the end of their 2nd year a master dissertation under the supervision of a member of the Institute. The offered courses will include:

1st year of the Master (M1)

Differential geometry

Fourier analysis

Functional analysis

Groups and representations

Mathematical methods of classical mechanics

Partial differential equations

Quantum Mechanics

Numerical methods

2nd year of the Master (M2)

Mathematical methods of quantum physics

Riemann geometry and integrable systems

Lie groups and Lie algebras

Quantum groups

Cohomological field theories

Mathematical methods of gravitation

All the lectures will be given in English. We will also provide several mini courses by the research visitors of the IMB as well as by invited professors in the framework of the Erasmus program.

We expect to have up to 10 fellowships for students. The interested candidates are strongly advised to already get in touch with us, and send a cv to:

For admission in M1: [Giuseppe.Dito@u-bourgogne.fr](mailto:Giuseppe.Dito@u-bourgogne.fr)

For admission in M2: [Nikolai.Kitanine@u-bourgogne.fr](mailto:Nikolai.Kitanine@u-bourgogne.fr)

- Le programme "Bourses d'excellence Eiffel" permet aux établissements français d'enseignement supérieur d'attirer les meilleur.e.s étudiant.e.s étranger.ère.s dans des formations diplômantes de niveau master et en doctorat. [LIEN](#).

Date limite de candidature : 12 janvier 2018.

- The 6th Heidelberg Laureate Forum (HLF): [The 6th Heidelberg Laureate Forum \(HLF\)](#), will take place in Heidelberg, Germany during September 23 – 28, 2018.

At HLF all winners of the Fields Medal, the Abel Prize, the ACM A.M. Turing Award, the Nevanlinna Prize, and the ACM Prize in Computing are invited to attend. In addition, young and talented computer scientists and mathematicians are invited to apply for participation. The previous HLFs have been an exceptional success. The HLF serves as a great platform for interaction between the masters in the fields of mathematics and computer science and young talents.

Applications for participation at the 6th HLF are open in three categories:

Undergraduates, PhD Candidates, and PostDocs. See the webpage

[www.application.heidelberg-laureate-forum.org](http://www.application.heidelberg-laureate-forum.org)

for the online application and further information. The IMU Adhering Organizations and national mathematical societies can nominate young researchers. Nominated persons get "priority treatment", but, since there may be too many nominations, they have no acceptance guarantee. During the nomination process you will be asked for an Org-ID, which is IMU38526 for the IMU. The deadline for application is February 9, 2018.

The HLF was initiated by the late German entrepreneur Klaus Tschira, and is supported by the Klaus Tschira Foundation, The Norwegian Academy of Science and Letters, The Association for Computing Machinery, as well as The International Mathematical Union.

- A meeting on sampling, uncertainty principles, and combinatorial methods in harmonic analysis: It will take place in BCAM, Bilbao, Spain, from the 15th until the 17th of January, 2018:

<https://sites.google.com/site/uncertainty2018/>

Our aim is to bring together people from different areas of analysis that are interested in the topics above, interpreted in a wide sense. The tentative program of the conference consists of a full day of lectures on Monday 15/01/2018, and Tuesday 16/01/ 2018, as

well as a half day of lectures in the morning of Wednesday 17/01/2018. **The list of speakers is already fixed and is as follows:**

Ali Baklouti, Carlos Beltrán, Aline Bonami, Óscar Ciaurri  
Karlheinz Grochenig, Philippe Jaming, Mihail N. Kolountzakis,  
Nir Lev, Alexander Logunov, Yuri Lyubarskii, Romanos-Diogenes  
Malikiosis, Eugenia Malinnikova, Alexander Olevskii, Joaquim Ortega-Cerdà, Jesús Sánchez-Dehesa, Stefan Steinerberger Gerald Teschl.

Registration is available on:

<https://sites.google.com/site/uncertainty2018/registration>

in order to facilitate the organization of the meeting.

➤ **Tunisian Journal of Mathematics (TJM).**

La Société Mathématique de Tunisie a le plaisir d'annoncer le lancement d'un nouveau journal international, le Journal Tunisien de Mathématiques (Tunisian Journal of Mathematics TJM), doté d'un comité éditorial de très haut niveau.

Cette nouvelle publication a été organisée par la Société Mathématique de Tunisie et est publiée sous forme électronique et imprimée par MSP à Berkeley. Elle publie des articles de recherche dans tous les domaines des mathématiques.

Ceux-ci sont sélectionnés par un comité éditorial international éminent, sur des critères de qualité et d'intérêt, et selon les normes internationales les plus élevées.

Le but de TJM est l'avancement des mathématiques. Les éditeurs évaluent les articles soumis exclusivement sur la base du mérite scientifique. Tous les articles soumis à cette revue sont examinés par des pairs. Le TJM utilise un processus d'évaluation unique par les pairs (blind peer-review), ce qui signifie que les rapporteurs savent qui sont les auteurs du manuscrit, mais les auteurs ne savent pas qui sont les pairs examinateurs.

Le continent africain s'intéresse de plus en plus au développement scientifique, en particulier en mathématiques. La Société Mathématique de Tunisie a été fondée en 1992 et est membre institutionnel permanent de l'Union Mathématique Internationale. Elle joue un rôle majeur dans la stimulation et le maintien d'une recherche mathématique de haut niveau en Tunisie et dans sa région environnante. Avec le lancement de cette revue, la Société Mathématique de Tunisie contribue au développement en Afrique d'une recherche scientifique répondant à des normes internationales élevées.

Le comité de rédaction de TJM invite les mathématiciens du monde entier à participer à ce projet stimulant en lui soumettant des articles de recherche de haut niveau.

La SMT exprime ses souhaits de succès au Journal Tunisien de Mathématiques.

➤ Le Tunisian Journal of Mathematics sur le site de l'IHES:

<https://www.ihes.fr/nouvelle-revue-internationale-de-mathematiques/>

<https://www.ihes.fr/en/new-international-mathematics-journal/>

➤ Les maths Campus : une idée à reproduire au Maghreb

<http://mathcamp.brockubeta.ca/>

- Accord de réciprocité entre la SMT et la SMF  
<http://smf.emath.fr/content/accords-de-reciprocite>
- Les conférenciers du congrès international des mathématiciens ICM2018  
<http://www.icm2018.org/portal/en/icm-speakers>

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## UPCOMING EVENTS

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- **Congrès annuel de la société mathématiques de Tunisie (CSMT18):**  
19-22 Mars 2018 à Tabarka.
- **13<sup>ème</sup> colloque Maghrébin sur l'histoire des mathématiques arabes (COMHISMA13) :**  
30 -31 MARS ET 1<sup>E</sup> AVRIL 2018 EN TUNISIE.  
Contact : [mahdi.abdeljaouad@gmail.com](mailto:mahdi.abdeljaouad@gmail.com)
- **Ecole CIMPA 2018: CONTRÔLE, PROBLÈMES INVERSESES ET GÉOMÉTRIE :**  
18-28 avril 2018 à Hammamet.  
<http://lamsin.enit-lr.tn/cimpa18-Tunisie/>
- **Ecole d'été : Polynômes Orthogonaux et Fonctions Spéciales :**  
Ecole Supérieure des Sciences et de Technologie de Hammam Sousse. 25-29 juin 2018.  
<http://www.essths.rnu.tn/OPSF-S8/acceuil.html>

Pour le Bureau de la SMT  
Ali Baklouti, Président

