International Junior Fellowship

Research field

Job number : JF/SF/CF-axeISITE-année-numero

The University Bourgogne Franche-Comté (UBFC) is recruiting a tenure eligible investigator in the field of mathematical physics, specifically in the laboratory Institut de Mathématiques de Bourgogne (http://math.u-bourgogne.fr) located in Dijon (France). This position is supported by the French "Investissements d'Avenir" program, project ISITE-BFC.

We encourage applications of outstanding scientists investigating this field of research. The candidates must have a PhD and at least three years of postdoctoral experience. Moreover, the candidates should have a substantive record of publications and the potential to develop an independent research program.

The successful applicant will be provided a 450 k€ grant (including her/his salary and research budget) for a period of three years. The salary will be negotiated on the basis of education and experience. It integrates a benefit package including retirement, health insurance, annual and sick leave.

UBFC (www.ubfc.fr) is a research university federating six organizations. The tenure eligible position will be provided by Université de Bourgogne, member of the UBFC federation, during the tenure probation period. During the same period, the successful candidate will be committed to apply for a European Research Council (ERC) grant, application to be repeated every year until the grant is obtained.

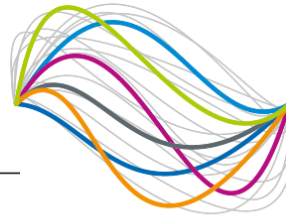The UBFC and the Université de Bourgogne are equal opportunity employers.

A indiquer En cas de ZRR: This position is subject to a background investigation by French authorities.

Job description *(typiquement une page):*

The Institut de Mathématiques de Bourgogne (IMB) is seeking a highly qualified mathematician for a tenure track position in the area of Mathematical Physics. The candidate is supposed to reinforce one of the axes of competence of the mathematical physics group. Candidates being able to establish collaborations within the axes of the ISITE-BFC, advanced materials, waves and intelligent systems, environment and agriculture, and medical sciences, will be especially considered.

About the hosting research team

The mathematical physics group of the IMB is an internationally renowned research group in the field. The international journal *Letters in Mathematical Physics* (LMP), one of the high profile journals in mathematical physics, has been founded in this group. Since then, the IMB has been hosting the editorial office of LMP, and a few members of the group are on the editorial board of LMP, including its managing editor.

The mathematical physics group has hosted pioneers in various fields of the domain: M. Flato developed here his concept of deformation quantization, V. Matveev was one of the first to introduce concepts from algebraic geometry in the theory of integrable systems, M. Semenov-Tian-Shansky is an expert of Poisson geometry, and J. Sjöstrand is a leading figure in spectral analysis.

The research interests of the mathematical physics group include a wide range of topics in mathematical physics, in particular deformation quantization and its applications, spin chains, integrable systems, conformal field theories, general relativity and gravitational theories, quantum groups, dispersive partial differential equations, and spectral analysis.

Targeted profile

The IMB is seeking a highly qualified researcher in mathematical physics having a profile for applying to an ERC Starting or Consolidator Grant. The candidate will join the mathematical physics group of the IMB and reinforce one or more of the research activities of the group:
- deformation quantization and its applications,
- classical and quantum integrability,
- quantum groups,
- mathematics of gravitation,
- spectral analysis and inverse problems,
- dispersive partial differential equations.

Instructions to apply:

Please follow this link http://www.ubfc.fr/projet-i-site/ to download the application form to be filled and returned by email to isite@ubfc.fr, before ……….