

Post-doc Projet SupToPhAG

Job title	Postdoctoral Position in Mathematical Physics / Algebraic Geometry
Job type (PhD, Post-doc, Engineer)	Post-doc
Contract duration (months)	12 to 24 months. 2200 € net/month
Qualifications (Master, Ph.D ...)	PhD
Job hours (full time/ part time)	Full Time
Employer	UBFC Université Bourgogne Franche-Comté
Financing Institutions	Graduate School EIPHI & Region Bourgogne Franche Comté
Host Laboratory	Institut de Mathématiques de Bourgogne
URL Host Laboratory	https://math.u-bourgogne.fr/
Address Host Laboratory	Institut de Mathématiques de Bourgogne (UMR 5584 CNRS) Université de Bourgogne Faculté des Sciences Mirande 9 avenue Alain Savary BP 47870 21078 Dijon
Job description	<p>Preamble</p> <p>The Institut de Mathématiques de Bourgogne at the Université de Bourgogne in Dijon, France, is offering a postdoctoral position in Mathematical Physics / Algebraic Geometry for a period of up to two years.</p> <p>The position is in the framework of the project SupToPhAG, funded by EUR-EIPHI, FEDER-Bourgogne and BFCRegion. The candidate will work with Taro Kimura and/or Daniele Faenzi. Please refer to the web page for more information about the institute: https://math.u-bourgogne.fr/</p> <p>Topics</p> <p>The project is aimed at several aspects of Mathematical Physics and Algebraic Geometry in a broad sense, most notably:</p> <ul style="list-style-type: none"> • Topological phases of matter, topological field theory, higher-order topological insulators; • Hyper-Kähler geometry and quiver varieties, gauge theory and instantons; • Derived categories and moduli spaces in algebraic geometry.
Supervisor(s)	Daniele Faenzi (daniele.faenzi@u-bourgogne.fr) Taro Kimura (taro.kimura@u-bourgogne.fr)

Candidate profile	Candidates must hold a PhD in mathematics or theoretical physics and have a demonstrated ability or potential for high quality research. It is expected that candidates possess a strong background in one or more of the following topics: topological insulators/superconductors, topological field theory, vector bundles in algebraic geometry and their moduli spaces, derived categories, gauge theory, instantons, quivers varieties.
Keywords	
Application deadline	30/04/2021
Application Depending on the type of position	<p>The postdoc position is for one year, possibly renewable, starting as soon as possible and anyway not later than September 2021.</p> <p>The offered net salary is 2300 euros per month. The application's deadline is 30 April 2021.</p> <p>The applicants should send us:</p> <ol style="list-style-type: none"> 1. a CV; 2. a short research statement; 3. a contact list of at least two reference persons. <p>We are willing to answer any inquiry from interested candidates. Please write to both addresses below. Daniele Faenzi (daniele.faenzi@u-bourgogne.fr) Taro Kimura (taro.kimura@u-bourgogne.fr)</p>