Giridhar Kulkarni

https://codegiri.github.io/webpage

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Date of birth Place of birth Nationality

27th September 1993 Ahmednagar, India

Indian

Civil status Unmarried, without children

Current residence Mobile phone no.

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Email addresses giridhar.kulkarni@protonmail.ch



EMPLOYMENT

University of Burgundy, Dijon, **FRANCE 21078** Research and Teachning Assistant (RA/TA) September 2019 - August 2020, full-time

Teaching contract (January 2019 - Juin 2019)

EDUCATION AND RESEARCH

University of Burgundy, Dijon, **FRANCE 21078**

PhD in Mathematics

(Oct 2016 - Nov 2020)

Research Group: Mathematical Physics

Title: Asymptotic analysis of the form-factors of

quantum integrable spin chains Thesis advisor: Nikolai Kitanine

Thesis defended on 20th November 2020

University of Cergy-Pontoise,

Masters in Theoretical Physics

(2015-2016)

Specialisation: systèmes inégrables **FRANCE 95011 Project:** Algebraic Bethe ansatz

Supervisor: Nikolai Kitanine

Indian Institute of Technology (Guwahati), India

Bachelor of Technology

(2011 - 2015)

Specialisations: Physics, Mathematics

Project: Axionic models for cosmological inflation

Supervisor: Arunansu Sil

781039

High-school Jawahar Navodaya Vidyalaya, India (2005–2009)

COMPUTER SKILLS

Programming C, C++, Python

Computational tools Mathematica, MATLAB

Web development HTML5, CSS, Javascript.

Typesetting $\text{LFT}_{EX} 2_{\varepsilon}$, XeT_{EX}, pgf/tikz.

OS & Utilities arch/debian, Bash, Git, regex

Photography GIMP / Adobe Photoshop

LANGUAGES

English proficient French advanced Hindi second language Marathi native speaker

HOBBIES

Astronomy, Board games, Cooking, Cycling, Tennis

PUBLICATIONS

N. Kitanine and G. Kulkarni. "Thermodynamic limit of the two-spinon form factors for the zero field XXX chain". SciPost Physics 6.076 (2019). DOI: 10.21468/scipostphys.6.6.076

Key area of interest: Quantum integrable systems, Algebraic Bethe ansatz, Form-factor approach

TEACHING

Spring 2020

- > MaIE2A: Maths tutorials for first-year students in electronics & informatics sequence and series, convergence, system of linear equations, matrices, vector spaces, ...
- ➤ MaIE4A: Maths tutorials for second-year students in electronics & informatics linear algebra: vector spaces, bases, linear maps, rank theorem, diagonalisation; graph theory, electronic circuits, ...
- Mathematics for biology geometry, derivatives, intergration, modelisation and optimisation

Autumn 2019

- Tutotirals for 'mathematical methods of quantum mechanics' (masters program) reduced density matrix, Van Neuman entropy, entanglement, harmonic oscillator, onedimensional portential well, interacting spin systems, oscillator chain, ...
- Math3A: Tutorials on analysis for second-year students in mathematics sequences: monotonocity, convergence, Cauchy sequence, subsequences; series: absolute convergence, Riemann series, Abel transform, alternating series, power series
- ➤ MaPC1A: Maths tutorials for first-year students in physics and chemistry fonctions, limits, continuity, derivation, integration, Taylor series ...
- ➤ MaIE1A: Maths tutorials for first-year students in informatics and electronics complex numbers, fonctions, continuity, derivation, integration
- ➤ Mathematics for second-year economy students system of linear equations, matrices, rank theorem, optimisation problems, ...

Spring 2019

- > MaIE4A: Maths tutorials for second-year students in electronics & informatics linear algebra: vector spaces, bases, linear maps, rank theorem, diagonalisation; combinatorics, graph theory ...
- Mathematics for biology geometry, derivatives, intergration, modelisation and optimisation

CONFERENCES

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☐ **Doctoral students seminar**, IMB Dijon, France (March 2019)

Title of the talk: Algebraic Bethe ansatz

☐ Annual Carnot-Pasteur doctoral school day, Dijon, France (June 2018)

Title of the talk: Classical and quantum integrability

☐ Young researchers meeting of the UBFC, Besançon, France (April 2018)

Title of the talk: Classical and quantum integrability