

Filip Požar

✉ filip.pozar@irb.hr

☎ +385-91-7993-180

🏠 14th September 1998

EDUCATION

- Mathematical gymnasium diploma, XV Gimnazija - MIOC Zagreb
● GPA 4.8 2013-2017
- University of Zagreb, Faculty of Science: Physics department Zagreb
● Master of Science in Physics: GPA 4.72/5.00, ECTS 357/300 Sep. 2017 - Oct. 2022
- University of Zagreb, Faculty of Science: Physics department Zagreb
● PhD Student enrolled in the Elementary Particle Physics program Sep. 2023 -

WORK

- Institute Ruđer Bošković Zagreb
● Assistant at the Division of Theoretical Physics, working for the Quantum Gravity and Mathematical Physics Group Apr. 2023 -

CONFERENCES, WORKSHOPS AND SCHOOLS

- Workshop: Quantum Aspects of Spacetime and Gravity Zagreb
Institute Ruđer Bošković September 5-9 2022
● I have attended the workshop at the Institute Ruđer Bošković in Zagreb, organized by my mentor dr.sc. Tajron Jurić. [Link to the workshop's site](#)
- Sarajevo School of High Energy Physics 2022 Sarajevo
University of Sarajevo October 10-15 2022
● I have attended the school at the Faculty of Science in Sarajevo, organized by University of Sarajevo and CERN. [Link to the schools's site](#)
59. Winter School of Theoretical Physics and third COST Action CA18108 Jelenia Gora
Training School "Gravity – Classical, Quantum and Phenomenology"
Institute of Theoretical Physics of the University of Wroclaw, Poland February 12-21 2023
● Here I held a 20 minute student talk about my first scientific paper. [Link to the schools's site](#)
- Basics of Quantum Gravity 2023 Online
Online via Zoom May 16 - November 16 2023
● I have attended the online school "Basics of Quantum Gravity". [Link to the schools's site](#)
- Mini symposium on Physics and Geometry 2023 Zagreb
Institute Ruđer Bošković June 5-9 2023
● I have attended the conference "Mini symposium on Physics and Geometry" organized by Athanasios Chatzistavrakidis (RBI), Larisa Jonke (RBI), Jan Rosseel (RBI).
Here I held a 20 minute presentation. [Link to the conference's site](#)
- Emergent Geometries from Strings and Quantum Fields 2023 Florence
Galileo Galilei Institute June 12-16 2023
● I have attended the school organized by Francesco Bonechi.
Here I held a 5 minute gong presentation. [Link to the schools's site](#)

COST CA18108 Fourth Annual Conference 2023 Rijeka
University of Rijeka, Faculty of Physics July 10-14 2023
● I have attended the conference organized by Tomislav Terzić and others. Here I held a 20 minute seminar presentation. [Link to the conference's site](#)

XXV SIGRAV Conference on General Relativity and Gravitation Trieste
SISSA September 4-8 2023
● I have attended the conference organized by SIGRAV comitee. Here I held a 20 minute seminar presentation. [Link to the conference's site](#)

Golden Wedding of Black Holes and Thermodynamics Online
Online via Zoom December 4-8 2023
● I have attended the conference organized by Níckolas de Aguiar Alves and others. I held a 30 minute seminar presentation. [Link to the conference's site](#)

44th Winter School Geometry And Physics Srni
Masaryk University January 13-20 2024
● I have attended the school organized by Masaryk University, Union of Czech Mathematicians and Physicists and Charles University. Here I held a 25 minute seminar presentation. [Link to the conference's site](#)

TALKS

I have held presentations/seminars on the following occasions:

- 59. Winter School of Theoretical Physics and third COST Action CA18108 Training School "Gravity – Classical, Quantum and Phenomenology" ([Quantum correction to black hole entropy](#))
- Mini symposium on Physics and Geometry 2023 ([Area law in NC geometry](#))
- Emergent Geometries from Strings and Quantum Fields 2023 ([Quantum aspects of BH entropy](#))
- COST CA18108 Fourth Annual Conference 2023 ([Noncommutativity and black hole entropy](#))
- XXV SIGRAV Conference on General Relativity and Gravitation ([Noncommutative Corrections to Black Hole Entropy](#))
- Golden Wedding of Black Holes and Thermodynamics ([Noncommutative correction to black hole entropy](#))
- 44th Winter School Geometry And Physics ([Noncommutative corrections to black hole entropy](#))

ARTICLES, THESIS

Noncommutative correction to the entropy of charged BTZ black hole (article)

[InspireHEP](#)

Institute Ruder Bošković, Zagreb

December 2022

- I have calculated the entropy of a charged BTZ black hole and its corrections due to angular Drinfeld twist in the expansion of the noncommutative parameter a .

The Geometry of Standard Model (Master's project)

[Link](#)

Faculty of Science - Physics department

September 2022

- I have developed the formalism of principal and associated bundles, spin structure and geometry on bundles and applied them in order to describe the Standard Model Lagrangian in a geometrical, coordinate free manner.

HONOURS AND AWARDS

- 2017-2020: Full STEM scholarship for bachelor's STEM students (funded by EU and Croatian Ministry of Science and Education).