## Claudia Rella

<u>claudia.rella@unige.ch</u> | <u>claudia.rella@cern.ch</u> | <u>https://www.claudiarella.com</u> Department of Theoretical Physics, University of Geneva Quai Ernest Ansermet 24, 1205 Geneva, Switzerland

EDUCATION	
Doctor of Philosophy in Mathematical Physics  Department of Theoretical Physics, University of Geneva, Switzerland  Thesis: Supervised by Prof Marcos Mariño.	2020, Oct – present
Affiliations: ERC SyG ReNewQuantum – NCCR SwissMAP.	
Master of Science in Mathematical and Theoretical Physics – Distinction  Mathematical Institute and Department of Physics, University of Oxford, UK	2018, Oct – 2019, Jur
Thesis: <i>Motivic Amplitudes</i> . Supervised by Prof Francis Brown.  Affiliations: St John's College.	
Bachelor of Science in Physics (*) – Summa cum Laude  Department of Physics, Sapienza University of Rome, Italy  Thesis: Photonic Bloch Waves. Supervised by Prof Fabio Sciarrino.  (*): Extra-curricular coursework in Mathematics at the Department of Mathematics.	2015, Oct – 2018, Jun
RESEARCH EXPERIENCE AND INTERNSHIPS	
Research Internship in High Energy Physics Phenomenology CERN, Geneva, Switzerland	2020, Jul – Sep
Master Class in Mathematical Physics University of Geneva and NCCR SwissMAP, Geneva, Switzerland	2019, Oct – 2020, Jun
Business Consulting Internship Pangea Formazione, Rome, Italy	2019, Jul – Aug
Research Internship in Experimental Particle Physics PADME @ INFN - LNF, Frascati, Italy	2017, Sep – Nov
OTHER ACTIVITIES	
Cooperation Associate of the Department of Theoretical Physics  European Organization for Nuclear Research (CERN), Switzerland	2022, May – present
Junior Member of the Scientific Council of the SRS Conference Centre SwissMAP Research Station (SRS), Switzerland	2020, Sep – present
Invited Contributor to the Theory Frontier of the 2021-22 Snowmass Process  Division of Particles and Fields of the American Physical Society, US	2020, Aug – presen
Mentee at LeadTheFuture Mentorship Program  LeadTheFuture, Italy	2019, Sep – present
PUBLICATIONS	

2021, Mar

An Introduction to Motivic Feynman Integrals

SIGMA 17 (2021), 032, 56 pages, https://doi.org/10.3842/SIGMA.2021.032

	nance of PADME's Cherenkov-Based Small-Angle Calorimeter ucl. Instrum. Methods Phys. Res. A 919 (2019) 89-97, a.2018.12.035	2019, Mar
TALKS		
Introduction to Motivic Ampl Research Seminar on Lie Grou	itudes ups and Moduli Spaces, University of Geneva, Switzerland	2019, Nov
Motivic Scattering Amplitude Conference on Representation	n Theory and Integrable Systems, ETH Zürich, Switzerland	2019, Aug
Monte Carlo Simulation of PAPADME Weekly Meeting, INF	ADME's Small-Angle Calorimeter FN – LNF, Italy	2017, Dec
TEACHING EXPERIENCE		
Lecturer on Topological Surfa Master Class in Mathematical	aces I Physics – Department of Mathematics, University of Geneva, Switzerland	2019, Oct
Lecturer on Riemannian Geor Excellence Program in Physics	metry s – Department of Mathematics, Sapienza University of Rome, Italy	2018, Mar – May
ACADEMIC ACHIEVEMENTS	S AND SCHOLARSHIPS	
Excellence Fellowship  NCCR SwissMAP, Switzerland	d	2019
Degree Prize for Distinction St John's College, University of	of Oxford, UK	2019
Torno Subito Scholarship Department of Education, Re.	search and University, Lazio, Italy	2018
Best Student Award for the Co Sapienza University of Rome	ourse in Nuclear and Subnuclear Physics and INFN, Italy	2018
Summer Student Scholarship INFN, Italy		2017
Excellence Program Department of Physics, Sapie	nza University of Rome, Italy	2016 – 2018
Deserving Student Scholarshi Sapienza University of Rome,		2015 – 2018
SKILLS		
Languages	Italian (native), English	
Programming Languages	C, C++, Python, R	

MATLAB, ROOT, gnuplot

Mathematica

Git

Geant4

Data Analysis Languages Symbolic Calculus Languages

Version-control Systems

Simulation Software