CHRISTOPH OLIVER ROUPEC

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EXPERIENCE

Vienna University of Technology, Institute for Theoretical Physics, Vienna *2017 - 2022*
Doctorate in Theoretical Physics under the supervision of **Timm Wrase**.
Thesis Title: *Flux Compactifications, dS Vacua and the Swampland*

Stanford Institute for Theoretical Physics *August - December 2019*
Visiting Scientist working with **Renata Kallosh** and **Andrei Linde**.

University of Vienna, Vienna *2015 - 2017*
Master of Physics graduated with distinction
Emphasis on theoretical particle physics, gravity and cosmology.

University of Vienna, Vienna *2011 - 2015*
Bachelor of Physics

Austrian High School Equivalent *Matura* *2006 - 2011*
HTL Wels graduated with distinction
School with emphasis on education in technology. Specialisation: Mechatronics

ADDITIONAL EXPERIENCE

Teaching Assistant *2019*
Erwin Schrödinger Institute, Vienna, Austria
Course on Supergravity taught by **Antoine Van Proeyen**.

Teaching Assistant *2013*
University of Vienna, Vienna, Austria
Basics of Programming for physicists.

PUBLICATIONS

Non-supersymmetric branes
with: N. Cribiori, M. Tournoy, A. Van Proeyen and T. Wrase
JHEP 07 (2020) 189 arXiv:2004.13110

de Sitter Minima from M theory and String theory
with: N. Cribiori, R. Kallosh and A. Linde
Phys.Rev.D 101 (2020) 4, 046018 arXiv:1912.02791

Mass Production of IIA and IIB dS Vacua
with: N. Cribiori, R. Kallosh and A. Linde
JHEP 02 (2020) 063 arXiv:1912.00027

Uplifting Anti-D6-brane
with: N. Cribiori, R. Kallosh and T. Wrase
JHEP 12 (2019) 171 arXiv:1909.08629

Supersymmetric anti-D3-brane action in the Kachru-Kallosh-Linde-Trivedi setup
with: N. Cribiori, T. Wrase and Y. Yamada
Phys.Rev. D100 (2019) no.6, 066001 arXiv:1906.07727

Further refining the de Sitter swampland conjecture
with: D. Andriot
Fortsch. Phys. **67** (2019) no.1-2, 1800105 arXiv:1811.08889

Scaling limits of dS vacua and the swampland
with: A. Banlaki, A. Chowdhury and T. Wrase
JHEP 1903 (2019) 065 arXiv:1811.07880

de Sitter extrema and the swampland
with: T. Wrase
Fortsch.Phys. 67 (2019) no.1-2, 1800082 arXiv:1807.09538

TALKS

Non-Supersymmetric Branes *17.11.2020*
Seminar Series on String Phenomenology, Boston, USA (online)

Scaling Limits of dS Vacua *27.06.2019*
StringPheno 2019, CERN, Geneva, Switzerland

dS Vacua and Starobinsky Inflation in 4d N=1 Supergravity *27.06.2017*
Seminar on Mathematical Physics, University of Vienna, Vienna, Austria

CONFERENCES AND SCHOOLS

StringPheno21 *12.-16.7.2021*
Northeastern University, Boston, USA (online)

CERN Winterschool *01-05.2.2021*
CERN, Geneva, Switzerland (online)

StringPheno20 *08.-12.6.2020*
Northeastern University, Boston, USA (online)

CERN Winterschool *03-07.2.2020*
CERN, Geneva, Switzerland

StringPheno19 *24.-28.6.2019*
CERN, Geneva, Switzerland

CERN Winterschool *04-08.2.2019*
CERN, Geneva, Switzerland

StringPheno18 *02.-06.7.2018*
University of Warsaw, Warsaw, Poland

CERN Winterschool *12-16.2.2018*
CERN, Geneva, Switzerland

Laces 2017 *27.11.-15.12.2017*
Galileo Galilei Institute for Theoretical Physics, Florence, Italy

GRANTS

Austrian Marshall Plan Fellowship *2019*
Travel grant to visit Stanford Institute for Theoretical Physics to collaborate with **Renata Kallosh**.

DKPI Associate *2019 - 2020*
Associate to the *Doktoratskolleg Particles and Interactions* under the supervision of **Anton Rebhan**.

ÖAW DOC Stipend *2019-2021*
Scholarship for excellent Doctorate candidates of the Austrian Academy of Sciences.

ADDITIONAL SKILLS

Language	German (native), English (fluent)
Type Setting	LaTeX
Mathematics	Wolfram Mathematica
Programming	Python, C, Fortran
Code Management	Github
Office Software	Microsoft, Libre, Google
Operating Systems	Microsoft Windows, Linux (Debian/Ubuntu), Android