

Christoph Oliver ROUPEC

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PERSONAL INFORMATION

Date of Birth	31st of July 1991
Place of Birth	Vöcklabruck, Austria
Nationality	Austria
Address	Breitenseer Straße 39a, T23-24, A-1140, Vienna, Austria

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	<i>12.-16.7.2021</i>
Northeastern University, Boston, USA (online)	
CERN Winterschool	<i>01-05.2.2021</i>
CERN, Geneva, Switzerland (online)	
StringPheno20	<i>08.-12.6.2020</i>
Northeastern University, Boston, USA (online)	
CERN Winterschool	<i>03-07.2.2020</i>
CERN, Geneva, Switzerland	
StringPheno19	<i>24.-28.6.2019</i>
CERN, Geneva, Switzerland	
CERN Winterschool	<i>04-08.2.2019</i>
CERN, Geneva, Switzerland	
StringPheno18	<i>02.-06.7.2018</i>
University of Warsaw, Warsaw, Poland	
CERN Winterschool	<i>12-16.2.2018</i>
CERN, Geneva, Switzerland	
Laces 2017	<i>27.11.-15.12.2017</i>
Galileo Galilei Institute for Theoretical Physics, Florence, Italy	

GRANTS

Austrian Marshall Plan Fellowship	<i>2019</i>
Travel grant to visit Stanford Institute for Theoretical Physics to collaborate with Renata Kallosh .	
DKPI Associate	<i>2019 - 2020</i>
Associate to the <i>Doktoratskolleg Particles and Interactions</i> under the supervision of Anton Rebhan .	
ÖAW DOC Stipend	<i>2019-2021</i>
Scholarship for excellent Doctorate candidates of the Austrian Academy of Sciences.	

ADDITIONAL SKILLS

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