

EDUCATION

Joris Raeymaekers. PhD

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Date of birth 22.03.1972
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Website: <https://ceico.cz/team/researchers/joris-raeymaekers>
Oct 1995-Sept 2001 PHD in Physics, KU Leuven. Advisor: W. Troost
Thesis: Tachyon Condensation in String Field Theory
Oct 1993-Sept 1995 Licentiate in Physics, KU Leuven. Advisor: P. Dhooghe
Thesis: Hamilton formulation for Bianchi models in cosmology
Oct 1991- Sept 1993 Bachelor in Physics, KU Leuven



CURRENT POSITIONS

2008 - now Senior Researcher (currently Level 5), CEICO, Institute of Physics of the Czech Academy of Sciences

PREVIOUS POSITIONS

2008 Postdoctoral Fellow, Department of Physics, University of the Witwatersrand, Johannesburg, South-Africa
2007-2008 Postdoctoral Researcher, Institute for Theoretical Physics, K.U. Leuven, Belgium
2005-2007 JSPS Postdoctoral Fellow, Department of Physics, University of Tokyo, Japan
2003-2005 Research Fellow, Korean Institute for Advanced Study, Seoul, South Korea
2001-2003 Visiting Fellow, Tata Institute of Fundamental Research, Mumbai, India
1995-2001 Assisting Academic Personnel, Institute for Theoretical Physics, KU Leuven, Belgium

PUBLICATIONS

***h*-index 13 (iNSPIRE)**

39 papers in impact factor journals, 4 conference proceedings, 1 submitted preprint

713 citations in total (iNSPIRE)

Publications related to the grant proposal in the last 5 years:

- 1 I.Basile, A.Campoleoni and J.Raeymaekers, *A note on the admissibility of complex BTZ metrics*, JHEP **03** (2023), 187
- 2 J. Raeymaekers, *A note on ensemble holography for rational tori*, JHEP **12** (2021), 177
- 3 J. Raeymaekers, *Conical spaces, modular invariance and $c_{p,1}$ holography*, JHEP **03** (2021), 189
- 4 O. Hulík, J.Raeymaekers and O.Vasilakis, *Information recovery from pure state geometries in 3D*, JHEP **06** (2020), 110
- 5 O. Hulík, J.Raeymaekers and O.Vasilakis, *Multi-centered higher spin solutions from WN conformal blocks*, JHEP **11** (2018), 101
- 6 A. Campoleoni, S.Fredenhagen and J.Raeymaekers, *Quantizing higher-spin gravity in free-field variables*, JHEP **02** 126 (2018) [**16 citations(iNSPIRE)**].

Other notable publications:

- 1 A. Castro, R. Gopakumar, M. Gutperle and J. Raeymaekers, *Conical Defects in Higher Spin Theories*, JHEP **02** (2012), 096. [**133 citations (iNSPIRE)**]
- 2 P. J. De Smet and J. Raeymaekers, *Level four approximation to the tachyon potential in superstring field theory*, JHEP **05** (2000), 051. [**87 citations (iNSPIRE)**]
- 3 E. Perlmutter, T. Procházka, *The semiclassical limit of W_N CFTs and Vasiliev theory*, JHEP **05** (2013), 007. [**73 citations (iNSPIRE)**]

Curriculum Vitae

RESEARCH GRANTS

Role	Amount	Timespan	Title	Grant name / Funder
Super-visor	150 439 EUR	2023-25	Quivers	HORIZON Europe / MSCA Postdoctoral Fellowship
PI	24 511 EUR	2020-22	Symmetries in Classical and Quantum Gravity	Mobility Plus Project / AVCR
PI	120 000 CZK	2015-16	Black hole microstates in supergravity	Mobility Project / AVCR
PI	192 000 CZK	2014-16	Probing higher spin black holes	Mobility Project / AVCR
PI	2 556 000 CZK	2011-13	Black hole microstates and chronology protection in string theory	Standard Project / GACR

INVITED TALKS AT INTERNATIONAL CONFERENCES (last 5 years)

June 2023	Workshop on Supergravity, Branes and Strings, Istanbul, Turkey
March 2019	ESI workshop on higher spins and holography, Vienna, Austria
December 2018	Workshop on Higher Symmetries and Quantum Gravity, MPIGP Potsdam, Germany
May 2018	Solvay Workshop on Holography, Brussels, Belgium
April 2018	GGi workshop on New Developments in AdS ₃ /CFT ₂ Holography, Florence, Italy

AWARDS and FELLOWSHIPS

2005-2007	JSPS Research Fellowship, Japanese Society for the Promotion of Science
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PUBLIC OUTREACH

I have frequently participated in public outreach activities such as the Czech Science Fair. In 2022 I was interviewed twice (for Seznam and Týdeník FORUM) on the black hole information paradox.

SUPERVISION OF GRADUATE STUDENTS and POSTDOCTORAL FELLOWS

<u>MSC</u>	2013-2014	Ales Flandera, Charles U., Czech Republic
<u>PHD</u>	2021-now	Paolo Rossi, Charles U., Czech Republic
	2022-2023	Canberk Sanli, FZU AVCR, Czech Republic (Supervisor of 1-year Tubitak internship)
<u>Postdocs</u>	Canberk Sanli (2023-24), Gideon Vos (2020-23), Orestis Vasilakis (2018-20), Tomas Prochazka (2012-13)	

ORGANIZATION OF INTERNATIONAL SCIENTIFIC MEETINGS

2023	'All Lambdas Holography @ Prague 2023', Prague
2022	'Gravity @ Prague, Advanced Summer school', 2nd edition, Prague
2021	'All Lambdas Holography @ Prague, online workshop', Prague
2018	'Gravity @ Prague, Advanced Summer school', Prague
2014	'Prague St. Nicholas Workshop on Strings and Higher Spins', Prague
2012	'Prague St. Nicholas Workshop on Strings and Higher Spins', Prague
2011	'String Field Theory', Prague

INSTITUTIONAL RESPONSIBILITIES

Since January 2022	Deputy Head of Department 29 -Theory of Elementary Particles
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COMMISSIONS OF TRUST AND SERVING SCIENTIFIC COMMUNITY

Journal Referee	PRD, JHEP, Nucl. Phys. B
PHD examiner	Tomas Malek (Charles U., 2012), Malak Khouchen (Masaryk U., 2019), Pavel Jiroušek (Charles U., 2022)
State exam committee	Stanislav Hronek (Masaryk U., 2022)