

# Curriculum vitae – Thomas Hertog

## Personalia

- Name: Thomas Hertog
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- Nationality: Belgian
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## Education

- 2002: PhD, University of Cambridge, Department of Applied Maths and Theoretical Physics  
Advisor: Prof. Stephen Hawking
- 1998: Part III of the Mathematical Tripos, University of Cambridge (distinction)
- 1997: Master in Physics, KULeuven (summa cum laude)

## Professional career

- Since 01/10/2014: Professor, KULeuven
- Since 01/10/2009: Member of the International Solvay Institutes for Physics and Chemistry, Brussels
- 01/10/2016 - 31/12/2016: Visiting Fellow, Trinity College, Cambridge, UK
- 01/04/2015 - 01/07/2015: Visiting Professor, KITP, U of California, Santa Barbara, US
- 01/10/2011 - 30/09/2014: Associate Professor, KULeuven (BOFZAP)
- 01/04/2013 - 01/07/2013: Visiting Professor, Dept of Physics, U of California, Santa Barbara, US
- 01/10/2009 - 30/09/2011: CNRS Research Associate (CR1), APC, Université Paris 7, France
- 01/09/2007 - 30/09/2009: CNRS Research Associate (CR2), APC, Université Paris 7, France
- 01/09/2005 - 31/08/2007: Fellow, CERN (Theory Division), Geneva, Switzerland
- 01/09/2002 - 31/08/2005: Postdoc, Physics Dept., U of California, Santa Barbara, US

## Prizes and awards

- 2015: Prize of the Flemish Scientific Foundation, Belgium
- 2013: European Research Council (ERC) Consolidator Grant
- 2011: Odysseus Fellowship, FWO, Belgium
- 2010: prime d'excellence de recherche, CNRS, France
- 2002: Honorary Fellow of the Belgian American Educational Foundation (BAEF)
- 2001: Jennings Prize, Wolfson College, University of Cambridge
- 1997: Kann. De Smedt Prize, KULeuven

## Research Domain

- Quantum - and string cosmology, relativity.

## Scientific track record

- ~ 70 papers as main author in top international peer-reviewed journals
- ~ 2600 citations (HEP INSPIRES database, SLAC, Stanford), h-index 25
- Publications: <http://inspirehep.net/search?ln=en&p=find+a+t.+hertog&jrec=1>
- ~ 50 invited lectures at international conferences and workshops
- >80 seminars/colloquia at universities or research institutes worldwide
- co-PI and coordinator for Belgium of the LISA gravitational wave mission (ESA)
- Advisor of 8 completed and 5 ongoing PhD's

## External Funding

- PI, ERC-2013-CoG *Holographic Quantum Cosmology*, 2014 - 2019, 1.96 MEUR
- PI, Odysseus grant *Principles of a String Theory Based Cosmology*, FWO, 2011 - 2016, 750 KEUR
- PI, FWO project *Exploring Black Holes with Gravitational Waves*, FWO, 2017 - 2021, 330 KEUR
- PI, KULeuven research grant *Horizons in High-Energy Physics*, KULeuven, 2016 - 2022, 1.65 MEUR
- PI, PICS research grant *Early Universe Cosmology*, CNRS, 2010 - 2015, 60 KEUR
- Promotor, two Marie-Curie fellow, EU Horizon 2020
- Promotor, three Pegasus Marie-Curie Fellowships, FWO
- Promotor, six FWO postdocs since 2011
- MC member to COST Action CA16104 'Gravitational waves, black holes and fundamental physics', 2016 - 2020

## Teaching

- *Quantum Physics* (2nd Bachelor Engineering, KULeuven)
- *Introduction to General Relativity* (3rd Bachelor Physics, KULeuven)
- *General Relativity* (1st Master Physics, KULeuven)
- *Early Universe Cosmology* (with B. Craps, 1st Master Physics, KULeuven, VUB & UGent)
- *Capita Selecta: Holography* (2nd Master Physics, KULeuven, 2013 - 2014)
- Supervision of 12 Master Theses since 2011, KULeuven

## Organization of scientific meetings

- Seven editions of the APC/PI/Solvay workshop *Cosmological Frontiers in Fundamental Physics*, Canada/France/Belgium, 2009 - 2015
- *Toine60* birthday symposium, 16/03/2013, Leuven, Belgium
- Theoretical Cosmology Workshop, 8-9/05/2014, Leuven, Belgium
- *The String Theory Universe*, 21st European string workshop, 7-11/9/2015, Leuven, Belgium
- *Cosmology Session*, Plenary Meeting of the Pontifical Academy of Sciences, 25/11/2016, Vatican
- *The Nature of our Biophilic Universe*, 1-2/12/2016, Academia Belgica, Rome
- Dutch - Belgian Holography Meeting, 27/1/2017, Leuven, Belgium
- Sixth Dutch - Belgian Gravitational Wave Meeting, 8/3/2017, Leuven, Belgium

## Institutional responsibilities, services and commissions of trust

- Member of the Consortium Board of LISA
- Member of the Gravitational Waves Observatory Working group, 2015 - 2016, ESA
- Founder of the Belgian [Gravitational Wave Center](#)
- Member of the Einstein Telescope consortium
- Member of the Education Commission of the Master of Astronomy & Astrophysics, KULeuven
- Member of the Faculty and Departmental board at KULeuven
- Member of the Master thesis evaluation committee at KULeuven, since 2011.
- External member of 20 PhD thesis committees in Belgium, France and the Netherlands.
- Referee for funding agencies ISF (Israel), CNRS (France), NWO (Netherlands), FWO and FNRS (Belgium), Fundação para a Ciência e a Tecnologia (Portugal), Max Planck Institute for Gravitational Physics (Germany), Fondecyt (Chili)
- Referee for most major journals in the field of high energy physics.