

Curriculum Vitae of Jan Louis

Professional employment and academic education:

- Since 2016 Vice President of the Universität Hamburg
- Since 2003 Full Professor (C4) at the Universität Hamburg
- 1996 – 2002 Full Professor (C4) at the Universität Halle
- 1995 Habilitation in Physics, Ludwig-Maximilians Universität München
- 1993 – 1996 DFG Heisenberg Fellow, Ludwig-Maximilians Universität München
- 1991 – 1993 Research Fellow at CERN, Geneva, Switzerland
- 1988 – 1991 Research Associate at SLAC, Stanford University, USA
- 1985 – 1988 PhD in Physics, University of Pennsylvania, Philadelphia, USA
- 1979 – 1985 Diploma in Physics at the Universität Karlsruhe

Selected professional memberships:

- Since 2016 Member of Scientific Advisory Panel of the Institute of Physics at the University of Amsterdam, The Netherlands
- Since 2012 Member of Advisory Board of the Mainz Institute for Theoretical Physics
- Since 2005 Founding member of the “Akademie der Wissenschaften in Hamburg”
- 2009 – 2016 Member of the Scientific Committee of the Galileo Galilei Institute (GGI)
- 2006 – 2016 Spokesperson of the SFB 676 “Particles, Strings and the Early Universe”
- 2006 – 2012 Member of the Minerva-Weizmann Committee
- 2000 – 2007 Spokesperson of the DFG-Schwerpunktprogramm (SPP 1096) “Stringtheorie im Kontext von Teilchenphysik, Quantenfeldtheorie, Kosmologie und Mathematik”
- 1999 – 2007 Member of the Advisory Committee of the Max Planck Institute “Mathematik der Naturwissenschaften”, Leipzig

Selected research topics and accomplishments:

The main research topics include supersymmetric quantum field theories, supergravity and its scalar geometry and string theory. More specifically, the computation of the low energy effective action of string compactification and the phenomenological and conceptual implications for particle physics and cosmology is a central research. A close connection with differential geometry arises from two related avenues. Firstly, the geometrical structures of the compactification manifold are directly related to properties of models in particle physics and cosmology. Secondly, the scalar sector of supergravity coincides with moduli space of the compactification manifold and mutually interesting properties have been uncovered. More recently, anti-de Sitter backgrounds of all supergravities together with their moduli spaces have been analyzed in a unified approach and the relevance for the AdS/CFT correspondence has been discussed.