

Dr. Benjamin Koch

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Pontificia Universidad Católica,
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RESEARCH INTERESTS LHC phenomenology
Physics beyond the standard model
Quantum gravity at the Terascale

EDUCATION **2007**, PhD
Title: Black hole production and graviton emission
in models with large extra dimensions
At: Frankfurt International Graduate School of Science and
Institute of Theoretical Physics in Frankfurt, Germany

2003, Diploma
Title: Einschleifenrechnungen zur tiefinelastischen
Neutrino-Nukleon-Streuung im MSSM
At: Max Planck Institute for Theoretical Physics, and
Technical University Munich, Germany

2001, One semester of language study
At: Universidad de Complutense in Madrid, Spain

1996, School leaving examination (Abitur)
At: Theodor Heuss Gymnasium Nördlingen, Germany

WORKING EXPERIENCE **Since 2012**, Assistant professor
At: Pontificia Universidad Católica de Chile, Santiago, Chile

2008-2011, Postdoc
At: Pontificia Universidad Católica de Chile, Santiago, Chile

2007-2008, Postdoc
At: Institute of Theoretical Physics in Frankfurt, Germany

2004-2007, Teaching assistant
At: Institute of Theoretical Physics in Frankfurt, Germany

2001, Internship
On: Simulation and construction of a water Cherenkov detector
At: Max Planck Institute for Physics in Munich, Germany

1996-1997, Civilian service

At: Lebenshilfe Nördlingen, Germany

TEACHING
EXPERIENCE

Lecturer and Professor at Pontificia Universidad Católica

2012-I Undergraduate course, General Physics for College (Spanish)
2011-II Undergraduate course, Electricity and Magnetism (Spanish)
2011-I Undergraduate course, General Physics for Engineers (Spanish)
2010-II Undergraduate course, Introduction to Particle Physics (Spanish)
2010-I Undergraduate course, Introduction to Physics (Spanish)
2009-II Undergraduate course, Introduction to Physics (Spanish)
2009-I Graduate course, Quantum Field Theory (English)
2008-II Undergraduate course, Introduction to Particle Physics (English)

Assistant at University of Frankfurt

2007-I Undergraduate course, Statistical Physics (German)
2006-I Undergraduate course, Quantum mechanics I (German)
2005-I Undergraduate course, Elektrodynamics (German)
2004-II Undergraduate course, Theoretical mechanics II (English)
2004-I Undergraduate course, Theoretical mechanics I (German)

RESEARCH
GRANTS

2012-2016, Fondecyt Regular 1020360

Theory and Phenomenology at the Terascale

LANGUAGES

German: native language

English: fluently

Spanish: fluently

Latin: reading only

COMPUTING SKILLS **Programming and editing:** C++, Fortran, Perl, Root, html, and Latex

Operating systems: Mac OSX, Linux, and Windows

OTHER INTERESTS Gymnastics, reading, and basketball

Santiago, June 14, 2012