

Dr. Benjamin Koch

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Santiago, Chile *Mail:* bkoch@fis.puc.cl
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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 September 2008**, Postdoc and lecturer
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 at Pontificia Universidad Católica

2011-II Undergraduate course, Electricity and Magnetism (Spanish)
2011-I Undergraduate course, General Physics (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)

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 surfing

Santiago, September 15, 2011