

## Dr. Benjamin Koch

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CONTACT INFORMATION      Instituto de Física,      *Tel:* ++56 (0)2 354-4500  
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Santiago, Chile      *Web:* www.th.physik.uni-frankfurt.de/~koch

RESEARCH INTERESTS      Physics beyond the standard model, LHC phenomenology, and quantum gravity.

EDUCATION      **1996**, School leaving examination (Abitur). Grade: 2.2  
At: Theodor Heuss Gymnasium Nördlingen, 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.

**2007**, PhD:

Title: Black hole production and graviton emission  
in models with large extra dimensions.

At: Frankfurt International Graduate School of Science (FIGSS) and  
Institute of Theoretical Physics in Frankfurt, Germany.

WORKING EXPERIENCE      **1996-1997**, Civilian service:  
At: Lebenshilfe Nördlingen, Germany.

**2001**, Internship:

Job: Simulation and construction of a water Cherenkov detector.

At: Max Planck Institute for Physics in Munich, Germany

**2004-2007**, Teaching assistant:

Topics: Mechanics, electrodynamics, quantum mechanics (I+II), and thermodynamics.

At: Institute of Theoretical Physics in Frankfurt, Germany.

**2007-2008**, Postdoc:

At: Institute of Theoretical Physics in Frankfurt, Germany.

**Currently** (Since September 2008), Postdoc and teacher:

At: Pontificia Universidad Católica de Chile, Santiago, Chile.

TEACHING

**Assistant at University of Frankfurt:**

2004-1, Undergraduate course, Theoretische Mechanik I;  
2004-2, Undergraduate course, Theoretische Mechanik II;  
2005-1, Undergraduate course, Elektrodynamik;  
2006-1, Undergraduate course, Quantenmechanik I;  
2007-1, Undergraduate course, Statistische Physik.

**Teacher at Pontificia Universidad Católica:**

2008-2, Undergraduate course, Introduction to Particle Physics;  
2009-1, Graduate course, Quantum Field Theory;  
2009-2, Undergraduate course, Introduction to Physics;  
2010-1, Undergraduate course, Introducción a la Física.

LANGUAGES

**German**, native language.

**English**, fluently.

**Spanish**, fluently.

**Latin**, (latinum).

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

**Operating systems**, Mac OSX, Linux, and Windows.

OTHER INTERESTS Gymnastics, drawing, and surfing.

Santiago, April 1, 2010