

## Dr. Benjamin Koch

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### CONTACT INFORMATION

Instituto de Física,  
Pontificia Universidad Católica,  
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Santiago, Chile

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### 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:

Undergraduate course 2008-2, introduction to particle physics;

Graduate course 2009-1, quantum field theory;

Undergraduate course 2009-2, 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, November 12, 2009