





Introduction to Bonn University, BCTP, BCGS and Forschungszentrum Jülich

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Rheinische Friedrich-Wilhelms-Universität Bonn

 Comprehensive university (Volluniversität)

• 7 faculties:

Catholic Theology Protestant Theology Law and Economics Medicine Arts and Philosophy *Mathematics and Natural Sciences* Agriculture





- about 31.000 students (about 4.000 from foreign countries)
- 504 Professors, 3.786 research staff, 1.813 non-scientific staff (admin etc)
- annual budget: 534,4 M€ and 136,0 M€ external funding for research

Rheinische Friedrich-Wilhelms-Universität Bonn

• research foci:

Mathematics (Cluster of Excellence) Physics and Astronomy (Bonn-Cologne Graduate School) Life sciences Economy (Nobel prize R. Selten 1994)

• 3 main research areas in physics:

Particle & hadron physics, astrophysics, photonics and condensed matter

- physics high-lights:
 - Nobel prize physics 1989 Wolfgang Paul
 - Electron Stretcher Accelerator ELSA
 - CRC 16 "Subnuclear Structure of Matter"
 - Bethe Center for Theoretical Physics & Bethe Forum



Sino-German CRC "Symmetries and the Emergence of Structure in QCD"

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• Mission:

The Bethe Center is a joint enterprise of theoretical physicists and mathematicians at various institutes of or connected with the University of Bonn. In the spirit of Hans Bethe it fosters research activities over a wide range of theoretical and mathematical physics. It provides a forum for interdisciplinary research throughout the fields of theoretical and mathematical physics.

• Activities:

- short and long term visitors program
- workshops on dedicated research topics
- regular Bethe Colloquium series
- lectures and seminars for graduate students

• Board of directors:



Hans-Peter Nilles (Dir.), Ulf-G. Meißner (Ass. Dir.), Daniel Huybrechts

• Webpage: http://www.bctp.uni-bonn.de/

Bonn-Cologne Graduate School in Physics & Astronomy

• Mission:

The Bonn-Cologne Graduate School (BCGS) is a joint Program of graduate studies between the Universities of Bonn and Cologne. The program leads students with a B.Sc. degree through a M.Sc. phase directly to doctoral studies (doctoral degree Dr. rer. nat., German equivalent for PhD). Students who successfully apply for the honors branch, receive a MSc/PhD degree with honors.

• Some numbers:

- 656 students plus 115 in honors brach
- faculty of 80 professors, lecturers and private docents
- special BCGS events like "science meets business"
- special lecture weeks and seminars organized by the students

• Spokespersons:

Martin Zirnbauer (Cologne) (Spokesperson), Norbert Wermes (Bonn) (Deputy)

• Webpage: http://www.gradschool.physics.uni-bonn.de



Bonn-Cologne Graduate School of Physics and Astronomy

Forschungszentrum Jülich

- Large interdisciplenary research center
- 11 institutes, about 4500 employes
- research foci: Information technologies Energy and environment Health



- main research areas in physics: Hadron & nuclear physics, condensed matter physics, computational physics
- physics high-lights:
 - Nobel prize physics 2007 Peter Grünberg Cooler Synchrotron COSY & construction of the HESR at FAIR Jülich Supercomputing Center (fastest European SC, 6 Pflops)



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- Bonn University and FZ Jülich foster international research and education
- Bonn University and FZ Jülich strive to further knot international ties
- We see the **Regional Training Network in Theoretical Physics** as a seed for further and deeper collaboration and exchange
- Let us make the **RTNTP** a great success and build upon it

Thanks for your attention & hospitality