

## **BCGS mini workshop B1 Saturday 9:30 - 12:00**

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### **"The hunt for the Higgs boson and other things you always wanted to know about particle physics"**

The workshop will be organized as a questions and answers session with series of student's questions concerning particle physics at the Large Hadron Collider. The questions will be discussed and answered by a panel of "experts" consisting of Ph.D. students and faculty members. Students are encouraged to send questions in advance to Eckhard von Toerne ([evt@physik.uni-bonn.de](mailto:evt@physik.uni-bonn.de)). It is also possible to ask questions during the workshop. A prize will be awarded for the most interesting questions that the panel was **not** able to answer. In the beginning of the session, several topics under discussion are introduced in a series of "appetizer talks" (~5 min. per talk).

The Large Hadron Collider (LHC) is a particle accelerator at the CERN research center near Geneva, Switzerland. Data are being taken at the world's largest center-of-mass energy of currently 7 TeV. The University of Bonn has a vital part in the building of the experiment (Pixel-microvertex detector), the operation and data analysis. The analysis topics of interest to us are top-quark physics, heavy gauge bosons, supersymmetry and the hunt for the Higgs boson.

When: Saturday 9:30 - 12:00

Preliminary time table:

- 9:30 - 9:45      Welcome, introduction of participants
- 9:45 - 10:15    Appetizer talks (~5 min each)
- 10:15 - 12:30   Answer to student's questions, discussion