



Rethinking Foundations of Physics

a workshop for young scientists

Traditional conferences and subject-specific workshops offer little room for in-depth discussions about the foundations of physics in an open, creative and speculative way. In tradition of the meetings in 2013, 2014 and 2015, this workshop offers a platform to young scientists for engaging in such discussions.

The major part of the workshop consists in discussion sessions in small groups, aiming at new approaches and ways of thinking about fundamental physics. These discussion sessions will be inspired by talks given by the participants. The specific topics of both talks and discussions will be chosen according to the expertise and interests of all participants, revolving around the following questions:

Which mathematical, conceptual, and experimental paradigms underlie modern formulations of QM, GR, and QFT?

Can they be relaxed or changed? And if so, how?

Which new mathematical developments could be relevant for future foundations?

Are there promising new or non-standard experimental possibilities?

The workshop is addressed to PhD students in physics, mathematics and related fields, as well as young researchers who have completed their PhD in the last few years. It is not required that participants have substantial knowledge in all modern physical theories, but a general interest and openness towards other fields and ideas is expected. Applications are open until January 15, 2016.

Date:	March 12 - March 19, 2016
Place:	Mountain cabin Dorfgastein, Austria
Participants:	18
Workshop fee:	300€ (Accommodation and food included. Financial support available.)

For additional information see:

www.rethinking-workshop.org

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