



Newsletter

02/2015



More than fifty international experts from different fields of mathematics participated in the Bethe Forum **“Constructive Methods in Number Theory”** from 3rd to 6th March, 2015, in the Bethe Center for Theoretical Physics.

The program was organized by Hartmut Monien (University of Bonn).

This year's **Lecture Series**, focussing on **“Axions”**, 9th to 13th March, was held by Kiwoon Choi (Institute for Basic Science, Center for Theoretical Physics of the Universe, Daejeon, Korea).

The **Bethe Forum “Methods in Lattice Field Theory”**, 3rd March to 2nd April, brought together world leading experts for this field for discussions and future development. The organizers were Ulf-G. Meißner, Akaki Rusetsky and Carsten Urbach (all University of Bonn, Helmholtz-Institut für Strahlen- und Kernphysik).

The **Bethe Forum “String Cosmology”**, 15th to 19th June, was organized by Rolf Kappell (University of Bonn), Sven Krippendorf (Oxford University), Hans Peter Nilles and Martin Winkler (both University of Bonn). Discussions focussed among other topics on the advance and challenges in embedding inflation in string theory.

The collage features two main posters. The top poster is for the **Bethe Forum String Cosmology**, held from 15th to 19th June, 2015, in Bonn, Germany. It lists key participants and the organizing committee. The bottom poster is for the **Bethe Colloquium** featuring Peter Koepke, titled **Turing Machines: Exploring the Limits of Computability**, held on Thursday, 2nd July, 2015, at 15 c.t. in Lecture Hall 1.

Recent Bethe Colloquia

- **Andreas Ringwald** (DESY, Hamburg)
The Hunt for Axions and other WISPs
April 16th, 2015
- **Urs Achim Wiedemann** (CERN-PH/TH, Geneva)
Heavy-ion collisions at the LHC
May 7th, 2015
- **Henry S.-H. Tye** (Cornell University, Ithaca, NY)
Sphaleron and Baryon Number Violating Processes
June 18th, 2015
within the Bethe Forum **“String Cosmology”**
- **Peter Koepke** (University of Bonn)
Turing Machines: Exploring the Limits of Computability
July 2nd, 2015

We are happy to announce the

7th Bethe Center Workshop

“Challenges in Strong Interaction Physics“
29th September to 2nd October, 2015

Physikzentrum Bad Honnef, Germany

The four workshop days will have the following themes:

- Non-perturbative Hadron-Hadron Interactions: few-particle systems
- Strongly interacting many-body systems
- Hadronic transitions form factors and $(g-2)$
- Hunting for physics beyond the SM

Further information and updates on the program can be found via <http://www.bctp.uni-bonn.de>.

Upcoming Bethe Colloquia

- **Jan Louis**
(Universität Hamburg)
Thursday, 22nd October, 2015
- **Christof Wetterich**
(Universität Heidelberg)
Thursday, 19th November, 2015
- **Andreas Weiler**
(TU München)
Thursday, 3rd December, 2015
- **Marc Vanderhaeghen**
(Johannes Gutenberg-Universität Mainz)
Thursday, 28th January, 2016



Events in 2016

- **Bethe Forum Lecture Series “Grand Unification“**
Stuart Raby (Ohio State University, Columbus, USA)
15th to 19th February, 2016
- **Bethe Forum “Axions“**
Convenors: Klaus Desch et al.
7th to 18th March, 2016
- **Bethe Forum “Model building in the 13 TeV era“**
Convenors: Rolf Kappl et al.
30th May to 3rd June, 2016
- **Bethe Forum “Dark matter beyond supersymmetry“**
Convenors: Oleg Lebedev et al.
13th to 17th June, 2016
- **Bethe Forum “Mirror Symmetry“**
Convenors: Hans Jockers et al.
4th to 8th July, 2016

**You are invited to participate in future bctp activities.
 Suggestions for Bethe Forum programs or workshops are welcome.**



For latest news, updates and application procedures, please visit our website:
<http://www.bctp.uni-bonn.de>

