Hausdorff School for Advanced Studies in Mathematics

The Hausdorff School for Advanced Studies in Mathematics is a new innovative training program for postdoctoral researchers based in Germany and worldwide. It combines summer and winter schools, international workshops, seminars on soft skills, and a mentoring program for academic teaching to support the development of young researchers. It builds a bridge between the systematic education of PhD students and the appointment to a professorship or a successful career outside academia. The application is open to all postdocs worldwide.

**Winter Schools**

- **Januar 11 – 15, 2016**
  **Advances in Mathematics of Signal Processing**
  Introductory School for Trimester Program „Mathematics of Signal Processing“
  **Organizers:** Massimo Fornasier (Munich), Mauro Maggioni (Durham), Holger Rauhut (Aachen), Thomas Strohmer (Davis)
  **Lecturers:** Francis Bach (Paris), Simon Foucart (College Station), Karlheinz Gröchenig (Vienna), Jean-Luc Starck (Saclay), Stephen Wright (Madison)

- **Januar 25 – 29, 2016**
  **Arithmetic Groups, their Cohomology, and Arithmetic Applications**
  **Organizers:** Günter Harder (Bonn), Christian Kaiser (Bonn)
  **Lecturers:** Günter Harder (Bonn), Eugen Hellmann (Bonn), Christian Kaiser (Bonn), Peter Scholze (Bonn), Joachim Schwermer (Vienna)

- **March 29 – April 2, 2016**
  **Derived Categories: Dimensions, Stability Conditions, and Enhancements**
  **Organizers:** Daniel Bergh (Stockholm), Olaf Schnürer (Bonn)
  **Lecturers:** Arend Bayer (Edinburgh), Amnon Neeman (Canberra), Paolo Stellari (Milan)

**Summer Schools**

- **April 18 – 22, 2016**
  **Low-rank Tensor Techniques in Numerical Analysis and Optimization**
  **Organizer:** André Uschmajew (Bonn)
  **Lecturers:** Lars Grasedyck (Aachen), André Uschmajew (Bonn), Bart Vandereycken (Geneva)

- **May 9 – 13, 2016**
  **Economics and Tropical Geometry**
  **Organizers:** Nguoc Tran (Bonn), Josephine Yu (Atlanta)
  **Lecturers:** Elizabeth Baldwin (London), Michael Joswig (Berlin), Katsuo Murota (Tokyo), John Weymark (Nashville), Yoshinori Shiozawa (Osaka)

- **May 17 – 25, 2016**
  **Von Neumann Algebras: Deformation/Rigidity, free Probability, and Subfactors**
  Introductory School for Trimester Program „Von Neumann Algebras“
  **Organizers:** Dietmar Bisch (Nashville), Vaughan Jones (Nashville), Sorin Popa (Los Angeles), Dima Shlyakhtenko (Los Angeles)
  **Lecturers:** Remi Boutonnet (Bordeaux), Adrian Ioana (San Diego), Masaki Izumi (Kyoto), Emily Peters (Chicago), Dima Shlyakhtenko (Los Angeles), Stefaan Vaes (Leuven), Dan Volculescu (Berkeley)

**Further Event**

- **June 23 – 25, 2016**
  **Young Women in Representation Theory**
  **Organizers:** Catharina Stroppel (Bonn), Joanna Meine (Bonn), Charlotte Ricke (Bonn)
  **Lecturers:** Vanessa Miemietz (East Anglia), Idun Reiten (Trondheim)

These events will be open to postdocs from all over the world. For each event, the Hausdorff Center offers support for external participants to contribute to the travel and accommodation costs. Applications including CV, motivation letter and a short recommendation from the advisor or mentor should be submitted via the online registration form at: [www.hcm.uni-bonn.de/events](http://www.hcm.uni-bonn.de/events) at least one month before the respective event will start. Regardless of financial support, online registration is required.