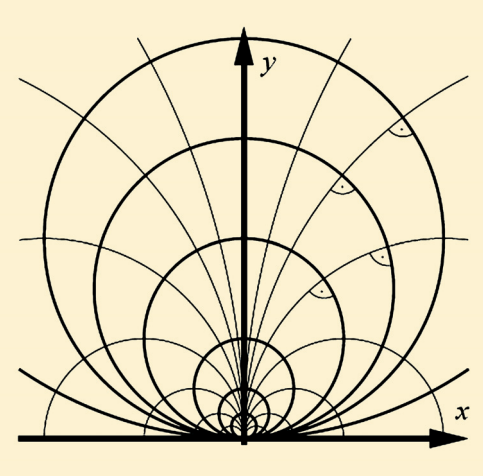


30.06.-05.07.2008



Workshop

# The Manifold Geometries of Quantum Field Theory

**Organizers:** Sergio Albeverio, Hanno Gottschalk and Matilde Marcolli

**The theory** of quantized fields has fostered new mathematical topics in a large variety of ways: Quantum fields on geometrical backgrounds are frequently used in cosmological models. Loop gravity, string theory and non-commutative geometry attempt to quantize space-time itself and create new geometries. Infinite dimensional geometry has quantum field theory as its major source of inspiration. Quantum fields on geometries with a very high degree of symmetry have been applied to a whole range of models cosmology to condensed matter physics.

**The aim** of the present conference is to assemble top speakers from the different areas of research outlined above sharing QFT as a common language.

**Participation:** The Hausdorff Center invites researchers to participate in this workshop. Registration is free but mandatory. Limited funds are available, in particular for young scientists. Applications should be sent to [visitors-secretary@him.uni-bonn.de](mailto:visitors-secretary@him.uni-bonn.de) and include a CV, a publication list, and a short letter of recommendation. Application deadline: **15 June, 2008**.

For detailed information, please visit the workshop webpage:  
<http://www.hausdorff-center.uni-bonn.de/qft>