The Location

Seminaris Kongreßpark

The Seminarris Hotel, avendi Hotel, Kur- & Kongresshaus and Wellness-avendi + SPA create the Seminarris Congress Park Bad Honnef. It is located in the middle of the spa gardens, a quiet residential area close to the center of Bad Honnef.

How to get there

Motorways:
from Frankfurt: A3 motorway, exit »Bad Honnef/Linz« 8 km
from Cologne: from the A59 motorway, follow the B42, exit »Bad Honnef/Rhöndorf« 2 km
Avendi Hotel: Hauptstraße 22
Seminaris Hotel: Alexander-von-Humboldt-Straße 20

Railway:
Bad Honnef station: 1 km
Tram station »Am Spitzenbach«: 10 walking minutes / 800m (38 minutes/15 km to Bonn)

Airport:
Cologne-Bonn about 30 minutes by car or taxi

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Summer School 2011
„Chemistry at Spin Centers“
- Spectroscopy, Reactivity, Applictions -
SFB 813
September 6—9
Bad Honnef
Seminarris Kongreßpark
**SFB 813**

**Spin centers** are molecules or atoms/ions with unpaired electrons in either the ground- or electronically excited states. Among the outstanding features of such systems are the potential for high- and complex reactivity and the emergence of magnetic properties. Both aspects could be of tremendous utility in the design of novel materials and functional systems.

The special research unit is determined to:

a) develop new theoretical and experimental methods to study spin centers,

b) to understand the mechanisms of their transformations in detail through a thorough combination of synthesis, spectroscopy and quantum chemistry and
c) to use the emerging insights to create new reactions and to design multifunctional materials in a rational manner.

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**Welcome Lecture**

**Prof. Dr. Andreas Gansäuer:**
Chemistry of Organic Radicals

**Prof. Dr. Sigurd Höger:**
Introduction to Polymer Chemistry and Radical Polymerization

**Dr. Maurice van Gastel:**
Introduction to ESR-Spectroscopy

**Prof. Dr. Johannes Beck:**
Introduction to Magnetism

**Prof. Dr. Alexander C. Filippou:**
Mechanisms of Reactions at Open-Shell Metal Centers

**Prof. Dr. Moritz Sokolowski:**
Charge Transfer in Solid States

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