

## How to find us

### From the Cologne/Bonn Airport

Taxi to Bonn Centre, approx. 25km/50Euro, or Airport Express Bus (SB 60) to Bonn Central Station, 30 min.

### From the Frankfurt Airport

When landing at Frankfurt Airport (165 km from Bonn), you need to take the Rapid Train (ICE) to Siegburg/Bonn. Be careful: Not all ICE trains travelling in the Cologne direction stop in Siegburg/Bonn.

### From the Düsseldorf Airport

When landing in Düsseldorf Airport (85 km from Bonn) take a train (ICE, IC or EC) to Bonn Central Station (50 minutes).

### Siegburg Central Station

The taxi from Siegburg to the Rheinische Friedrich-Wilhelms-Universität Bonn (17 km/20 minutes) costs about 30 Euros. You can also take public transportation (tram 66).

### From the South:

Take highway A 565 exit Poppelsdorf and follow the signs to Bonn Centrum.

### From the North:

Take highway A 555 to Autobahnkreuz Bonn-Nord or the highway A 565 exit Poppelsdorf and follow the signs to Bonn Centrum.

### Parking

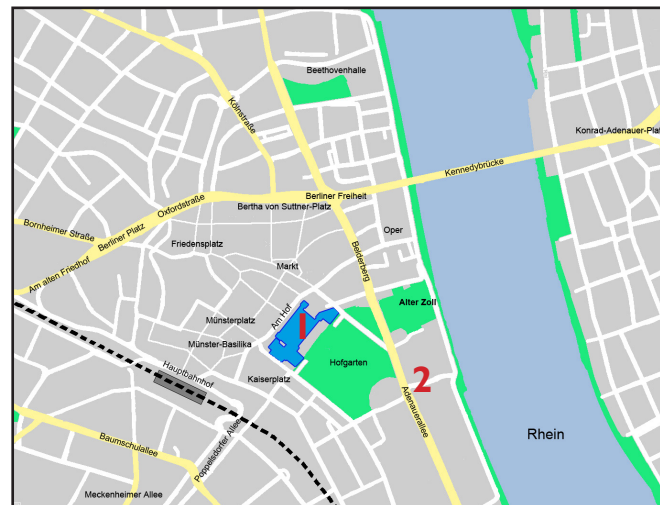
Parking is available next to the meeting venue at the Marktgarage.

## Contact Details Coordinator

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**The meeting attendance is free.**  
**Places are limited, please register (mandatory) at**  
**[www.sfb1089.de](http://www.sfb1089.de)**



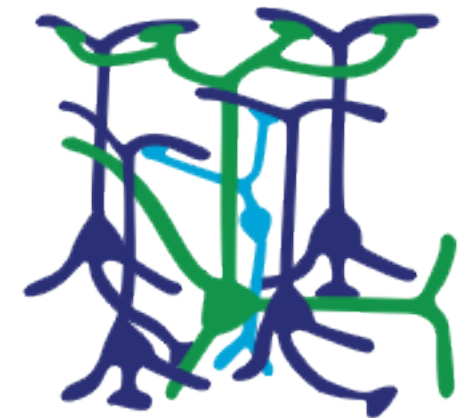
### Venue of the Meeting (I)

Rheinische Friedrich-Wilhelms-Universität Bonn I  
Am Hof 1, 53113 Bonn  
Tel: +49-228 73 6731  
Fax: +49-228 73 9350  
Festsaal, Senatssaal  
<http://www3.uni-bonn.de/die-universitaet/standorte/lage-plaene-der-hoersaale-im-hauptgebaeude>



## Kick-Off Meeting SFB 1089

## Synaptic Microcircuits



# SFB 1089

Rheinische Friedrich-  
Wilhelms-Universität Bonn

27th - 28th March 2014

[www.sfb1089.de](http://www.sfb1089.de)



## Preliminary Schedule and Speakers

### Thursday, March 27th, 2014 Public Meeting

#### 09:00-11:05 **Session 1, Elementary features of synapses**

**Ege T. Kavalali:** Action potential independent neurotransmission and neuronal signaling

**Peter Jonas:** Ca<sup>2+</sup> channel - release sensor coupling at central synapses

**Noam Ziv:** Activity, synapses & cholinergic tone: a bedtime story

**Lu Chen:** The new face of an old molecule: synaptic signaling of retinoic acid

**Dmitri Rusakov:** Communication medium of synaptic environment

11:05-11:20 *Coffee break*

#### 11:20-13:00 **Session 2, How do neurons perform input-output computation?**

**Nelson Spruston:** Dendritic integration, plasticity, and diversity in hippocampal pyramidal neurons

**Michael Häusser:** Dendritic computation

**Heinz Beck:** Dendritic integration in hippocampal neurons

**Jeff Magee:** TBD

13:00-14:00 *Buffet lunch*

#### 14:00-15:40 **Session 3, How does cortex process sensory information?**

**Jason Kerr:** Imaging brain and behavior in the freely moving animal: from the eye to the cortex

**Fritjof Helmchen:** Imaging neocortical networks at work

## Preliminary Schedule and Speakers

**Peyman Golshani:** Brain state dependent membrane potential dynamics in visual cortex

**Kerri Martinovich:** Differential influences of individual BDNF transcripts on cortical network activity

15:40-15:55 *Coffee break*

#### 15:55-17:10 **Session 4: Hippocampal circuits, learning, and memory**

**György Buzsáki:** Network patterns in the hippocampus

**Jozsef Csicsvari:** Plastic changes in interneuron circuits during spatial learning

**Ivan Soltesz:** Cell-type specific organization of hippocampal chronocircuits

**Rosa Cossart:** TBD

#### 17:15-18:15 **Key note lecture: Nobel laureate Tom Südhof (Introduction and Chair, Susanne Schoch)**

19:30-open *Speakers dinner, Zur Lese 2 (see map) (Adenauerallee 37, 53113 Bonn)*

### Friday, March 28th, 2014 Public Meeting

#### 9:00-10:15 **Session 5: Linking neuronal activity with behavior**

**Florian Mormann:** Cognitive adventures of single neurons in the epileptic human temporal lobe

**Stefan Remy:** A circuitry controlling hippocampal population activity and voluntary movement

**Christof Koch:** A bio-tech approach to neuroanatomy and electrophysiology in the mouse and human neocortex

10:15-10:30 *Coffee break*

#### 10:30-12:10 **Session 6, Principles of inhibitory microcircuit organization**

**Gabor Tamas:** TBD

**Hannah Monyer:** ons of local and long-range GABAergic neurons

**Ilan Lampl:** Effects of sensory stimulation and cortical state on E/I balance in the somatosensory cortex

**Arthur Konnerth:** Identification of an inhibitory microcircuit underlying habituation of the acoustic startle response

12:10-12:25 *Coffee break*

#### 12:25-13:15 **Session 7: New Technologies**

**Feng Zhang:** Neuroengineering: molecular and optical axes of control

**Günter Mayer:** Light-control of aptamer activity

13:15-14:15 *Buffet lunch*

#### 14:15-15:05 **Session 8: Circuit mechanisms of CNS disorders**

**Lennart Mucke:** Neural network dysfunction in alzheimer's disease: mechanisms and treatment

**Istvan Mody:** The role of newly born granule cells in epileptogenic circuits

**Frank Bradke:** Cytoskeletal mechanisms of axon growth and regeneration

16:00

**Final Meeting Advisory Board Steering committee**