

# TUM-IAS Summer Seminars

*Lectures by Prof. Leon Chua, TUM-IAS Visiting Fellow*

**July 21, 2010 | 10:00-16:00 | TUM-IAS Nymphenburgerstraße 39**

TUM-IAS Visiting Fellow Prof. Leon Chua of the University of California in Berkeley will give two summer seminars at the Institute for Advanced Study, Nymphenburgerstraße 39, Munich on July 21<sup>st</sup>.

The topics that he will treat are the following:

**July 21<sup>st</sup>, 10:00-12:00**

***“Memristor Brains and Minds“***

The first part will be a self-contained introduction to memristors for those who did not know what is a memristor. The second part will be on memristor applications to neurobiology, learning, and associative memory, that Chua developed from an information theoretic perspective. He will also show that brains are made of memristors.

**July 21<sup>st</sup>, 14:00-16:00**

***“Nonlinear Dynamics: perspective on Wolfram's New Kind of Science“***

This subject will consist of rigorous mathematical theories that Chua developed and is completely original, and quite fundamental, with relevance to nonlinear dynamics and group-theoretic physics.

Due to the limited space at our Nymphenburgerstraße facility, participation is by registration only, on the basis of 'first come, first served'.

If you like to participate, please send an email to Sigrid Wagner, [wagners@zv.tum.de](mailto:wagners@zv.tum.de). Lunch will be served between the two seminars.

**Klaus Mainzer**  
Director, Carl von Linde Academy

**Patrick Dewilde**  
Director, TUM-IAS



*Prof. Chua is visiting TUM-IAS during the months of July and August and shall be available for interactions during that period. In particular, informal contacts will be possible on the 20th and the 22nd of July.*