



**Deutsche Physikalische Gesellschaft e.V.
Magnus-Haus Berlin**

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Lise Meitner Lecture

Magnus-Haus Berlin, Am Kupfergraben 7, 10117 Berlin

Thursday, October 29, 2009, 18.30 h

Prof. Cecilia Jarlskog

Lund Institute of Technology, Lund University, Sweden

Symmetries - Exact and Broken

Afterwards, food and drinks in the 'Remise'

Supported by the Federal Ministry of Education and Research, the Association of German Engineers and the WE-Heraeus-Foundation;

Award ceremony for the winners of the "Lise Meitner pupils contest"

Friday, October 30, 2009, 17.30 h

Freie Universität Berlin, Institut für Chemie und Biochemie,
Lise-Meitner-Hörsaal, Thielallee 63, Berlin

The **Lise Meitner Lectures** are a binational project of the DPG and the Austrian Physical Society (ÖPG) to inform young people, especially girls and women, about the importance of the natural sciences and to wake enthusiasm for them.

The research areas of **Cecilia Jarlskog** include theoretical nuclear physics, elementary particle physics, applied mathematical physics, complex systems, and chaos. Cecilia Jarlskog has published a number of works on particle physics and is a prominent member of CERN, responsible for the relations between CERN and its member states. She is also past Chair of the Nobel Prize Committee for Physics and is member of the Swedish Academy of Sciences.

Abstract: Symmetries play a tremendously important role in nature. The speaker will first give a simple introduction into the concept of symmetries in physics, followed by a number of examples. Then, she will discuss in some more detail the 'mirror symmetries', in particular the broken 'particle – antiparticle symmetry', a topic she has worked on. Some of Lise Meitner's views on topics related to the talk will be presented.