

**Friday,  
October 13<sup>th</sup>  
At 3:30pm**

**The ultracold neutron physics program at  
the ILL**

**Abstract:**

The Institut Laue Langevin (ILL) is an international research centre at the leading edge of neutron science and technology. As the world's flagship centre for neutron science, the ILL provides scientists with a very high flux of neutrons feeding some 40 state-of-the-art instruments, which are constantly being developed and upgraded. The instruments of the nuclear and particle physics group (NPP) and their fields of research are briefly presented. ILL's two ultracold neutron installations are described in more detail. The ongoing research program using ultracold neutrons as measuring the lifetime of the free neutron, the search for an electric dipole moment and gravity resonance spectroscopy are highlighted.

Peter W.H. Geltenbort received a PhD from the University of Tuebingen, Germany, in 1983. He joined the Nuclear and Particle Physics (NPP) College at the ILL in 1983 responsible for a fission fragment spectrometer. From 1989 to 1993 he held the position of Head of the Detector Group. In 1993 he reintegrated into the NPP group responsible for the Ultracold Neutron/Very Cold Neutron facilities at the ILL. His current research interests are the fundamental properties of the neutron.

**CYCLOTRON  
COLLOQUIUM**

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**Dr. Peter  
Geltenbort**

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**The Institut  
Laue Langevin  
(ILL)**

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**Grenoble,  
France**

**CYCLOTRON  
INSTITUTE**

Room 228

Refreshments will be  
served at 3:15pm



**TEXAS A&M  
UNIVERSITY**