



## Séminaire du LCPMR

Mardi 27 Octobre à 16h00 heures

Amphithéâtre Jean Perrin

### **Attempts to measure stimulated emission in the X-ray range**

**Dr. Jan-Erik Rubensson\***

Department of Physics and Astronomy, Uppsala University,  
Sweden

One of the most fascinating prospects at free-electron lasers is the opportunity to investigate non-linear phenomena in the X-ray range. Especially, stimulated emission promises to give unique information about light-matter interaction and to open a new avenue for studies of ultrafast dynamics. The investigation of such processes also poses an experimental challenge. Requirements and prospects are discussed in the light of recent attempts to observe stimulated processes at the O K resonance of the CO molecule at the LCLS, and at the double excitations of the helium atom at FERMI.

\*visite co-financée par l'Institut Parisien de Chimie Physique et Théorique (IP2CT)