

# AMO PHYSICS SEMINAR

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## **Laser-assisted magnetic resonance**

Time: Thursday, November 18, 15.15 to 16.00

Place: Fysisk Auditorium

### **Abstract**

Magnetic resonance spectroscopy has proved extremely useful for the investigation of structure and dynamics of various types of materials. The aim of this talk will be to demonstrate that coherent optical radiation can increase the range of systems to which magnetic resonance spectroscopy can be applied by increasing its sensitivity. Even in systems where conventional magnetic resonance spectra can be obtained, the combination of magnetic resonance with optical excitation or detection can yield more detailed information such as the orientation of tensorial interactions from non-oriented samples. Examples for systems studied with these techniques include ionic solids, semiconductors and proteins.

Ulrik Uggerhøj and Steen Brøndsted

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