

**Programme for September 14-15, 2016**  
**“Workshop on Strong-field and Ultrafast Physics”**  
**Department of Physics and Astronomy**  
**Aarhus University, Denmark**

**September 14: Workshop on Strong-field and Ultrafast Physics**

**16:00-16:15:** Coffee break

**16:15-17:00:** J. Mauritsson “Free Induction Decay in the XUV controlled using strong IR pulses”

**September 15: Workshop on Strong-field and Ultrafast Physics**

**10:00-10:15:** Coffee break

**10:15-11:00:** D. Bauer “Density matrix functional theory and natural orbitals applied to few-electron strong-field processes”

**11:00-11:15:** Questions and discussion

**11:15-12:00:** M. Førre “The propagation gauge - an alternative description of the light-matter interaction beyond the dipole approximation”

**12:00-12:15:** Questions and discussion

**12:15-13:15:** Lunch break (for the 3 external speakers and the organizer (4 people) lunch will be organized in the Chemistry Canteen)

**13:15-14:00:** Aarhus 1 “The three dimensional time-dependent restricted-active-space self-consistent-field method: Application to atoms” (J. Omiste)

**14:00-14:15:** Questions and discussion

**14:15-15:00:** A. Saenz, “The *Lochfrass* effect: watching nuclear motion and tunneling in molecules in real time”

**15:00-15:15:** Questions and discussion

**15:15-15:30:** Coffee break

**15:30-16:15:** Aarhus 2 “Time-dependent Restricted-active-space self-consistent-field method: Application to many-bosons systems” (C. Leveque)

**16:15-16:30:** Questions and discussion

**16:30-17:00:** Aarhus 3 “Non-Sequential Double Recombination HHG in Molecular Systems” (K. Hansen)

**17:00-17:30:** Aarhus 4 “Helium in intense XUV laser pulses: Channel-resolved photoelectron spectra” (C. Yu)