<u>Februar 21st</u>, 2022 10:00 AM QED & Materials seminar Simon Vendelbo Bylling Jensen, Aarhus University

Title

"Nondipole formulation in Strong Field Physics"

Abstract

I will identify a nondipole strong-field approximation (SFA) Hamiltonian. Using classical simulations, I will show that this Hamiltonian is accurate and free from a defect present in the conventional 1/c nondipole expansion. I will allude to the Hamiltonian being attractive for numerical and analytical modelling of nondipole effects. I will briefly comment on implications of nondipole effects for laser-assisted scattering, strong-field ionization etc. At last I will show that similar ideas can be introduced in condensed matter systems.

Reference: https://doi.org/10.1103/PhysRevA.101.043408