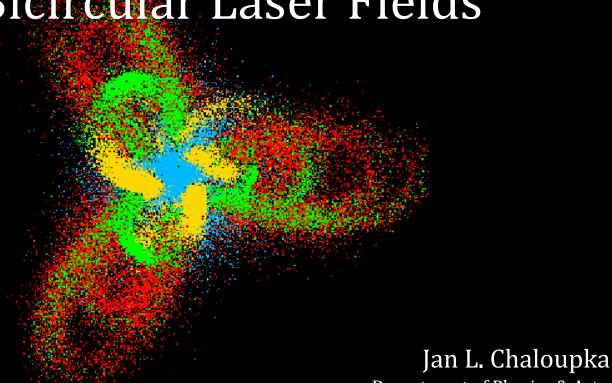
Strong-Field Ionization in Bicircular Laser Fields

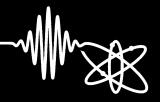


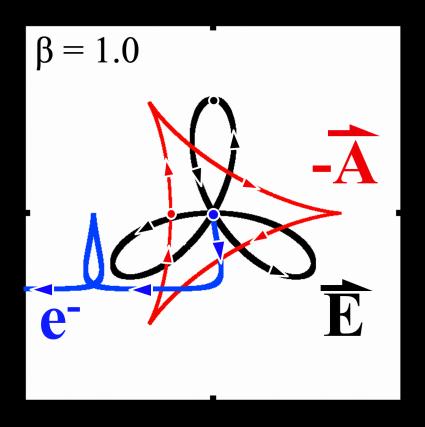
APS March Meeting

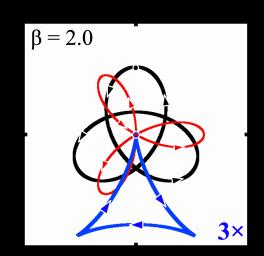
Denver, CO
6 March 2020

Department of Physics & Astronomy University of Northern Colorado

2ω : ω bicircular fields & returning trajectories

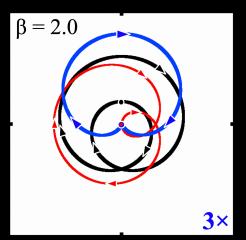






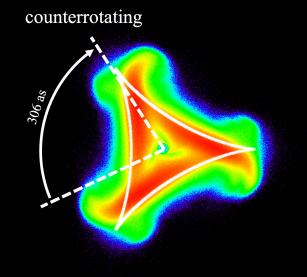
counterrotating (release at max field)

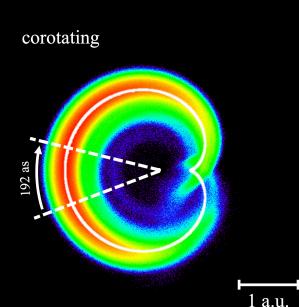
corotating (release at min field)



"attoclock" reveals effect of Coulomb potential

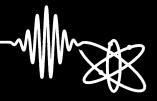


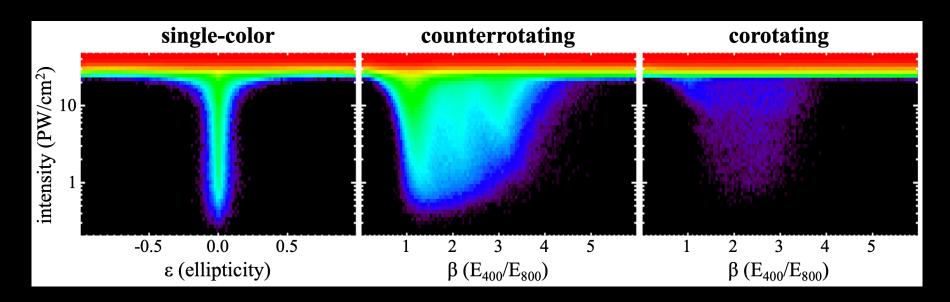




a measurable delay in the electron momentum distributions is a result of the electron's interaction with the Coulomb potential

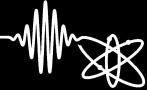
non-sequential double ionization yields

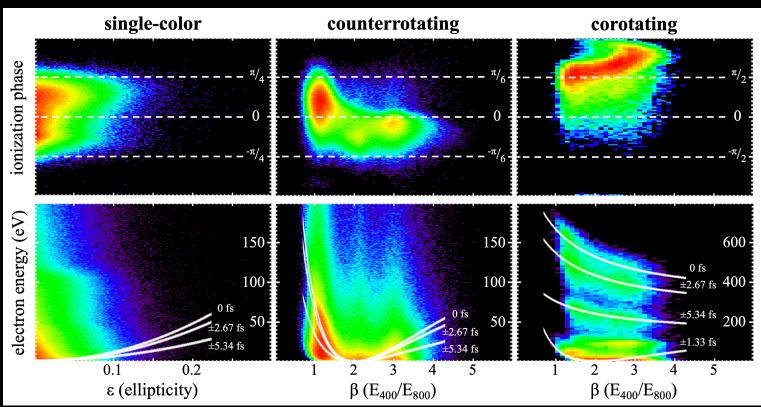




the iconic NSDI "knee" shows dependence on ellipticity, and exists for a broad range of field amplitude ratios

double ionization phase & energy

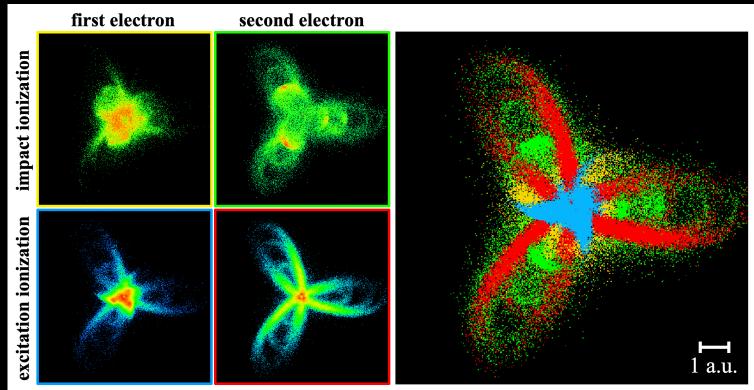




electron momenta & ionization pathways

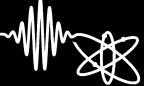
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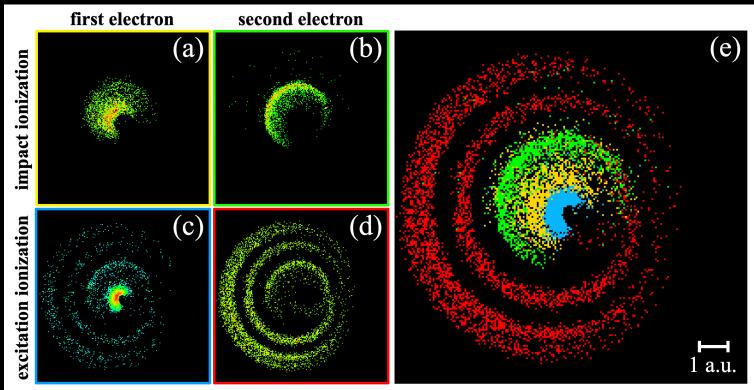




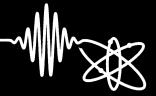
electron momenta & ionization pathways

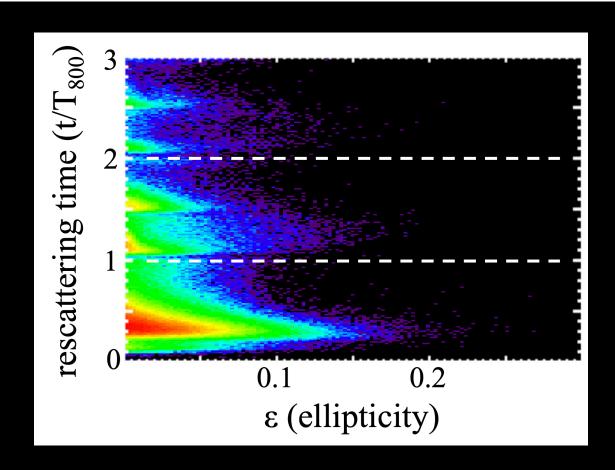
corotating



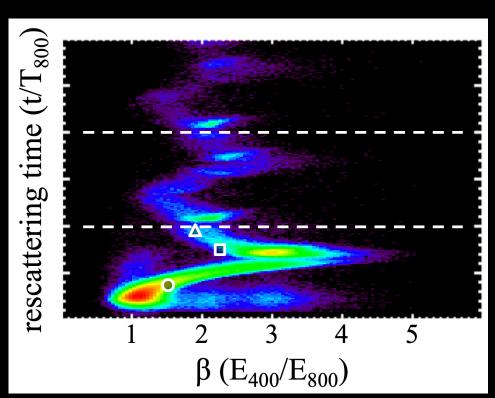


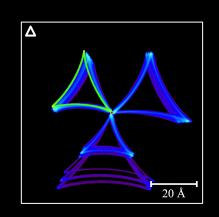
rescattering timing with single-color fields

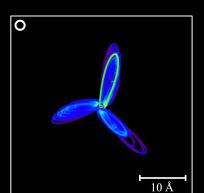


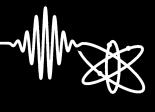


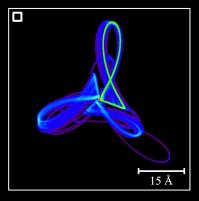
rescattering timing with counterrotating fields



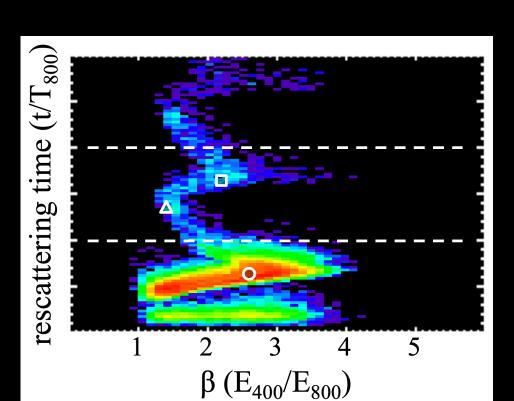


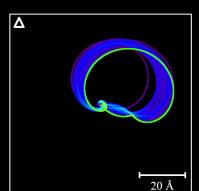


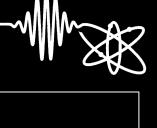


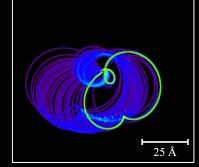


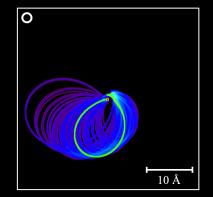
rescattering timing with corotating fields











electron momenta & rescattering trajectories

