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Strong Field Laser Physics. 19 December 2008 / Comments. Experiment. Barry C. Walker. ULTRA-Strong Light Fields: In ultrastrong light fields, our common understanding of light - matter interactions begins to fail. The speed of the photoelectron becomes relativistic and the magnetic field of light affects the way light interacts with matter. Our recent research results have characterized this progression from the strong- to ultrastrong-field and shown this can have a significant effect on ...

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springer, This thesis presents an experimental study of the ultrafast molecular dynamics of  $\text{CO}_2^+$  that are induced by a strong, near-infrared, femtosecond laser pulse. In particular, typical strong field phenomena such as tunneling ionisation, nonsequential double ionisation and photo-induced dissociation are investigated and controlled by employing an experimental technique called impulsive molecular a...

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