

STUDYING ATOMIC DYNAMICS WITH DESIGNER PULSES¹

C. O. Reinhold, J. Burgdörfer², M. T. Frey³, F. B. Dunning³

A brief review of recent experimental and theoretical progress on the dynamics of Rydberg atoms using short half-cycle pulses is presented. We discuss new possibilities in coherent control and non-linear dynamics of atoms which have lately become possible using various superpositions of such pulses.

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²Adjunct staff member from University of Tennessee, Knoxville.

³Rice University, Houston, TX.