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Alternative Representations for H in an Intense Laser Field¹ FATIMA ANIS, B.D. ESRY, J.R. Macdonald Laboratory, Department of Physics, Kansas State University — We will present calculations of hydrogen in an intense laser field. In particular, we will focus on alternative representations to examine their effectiveness for computing and understanding ionization. We solved the time-dependent Schrodinger equation using methods like finite differences and b-splines for the spatial degrees of freedom utilizing various coordinate systems. The prospects for application to multielectron atoms will be explored.

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Prefer Oral Session
 Prefer Poster Session

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