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Fully correlated two electron calculations interacting with intense laser fields in hyperspherical coordinates¹ JOEL VENZKE, AGNIESZKA JARON-BECKER, ANDREAS BECKER, JILA and Department of Physics, University of Colorado, Boulder — Simulations of fully correlated multi electron systems are computationally difficult. When coupled with an intense laser pulse, both the bound and continuum states must be represented, which further complicates the calculations. By expanding the two electron wavefunction in hyperspherical coordinates, the number of radii that must be discretized reduces. In this poster, we present progress towards and current status of our two electron hyperspherical code.

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Joel Venzke
University of Colorado, Boulder

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