

Abstract Submitted  
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**Circular arrangements of atoms: solving Schrödinger's equation for the energy spectrum** MATTHEW GOLDEN, MELLITA CARAGIU, Ohio Northern University — Placing atoms in a circular arrangement enables us to use Schrödinger's time-independent equation in combination with specific boundary conditions in order to solve for the system's energy spectrum. In addition, symmetry constraints facilitate the investigation of various configurations of atoms, including the situation in which atoms are of different species. We use MAPLE to represent graphically the solutions of the resulting transcendent equations.

Mellita Caragiu  
Ohio Northern University

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