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**Jacob A Siehler\*** ([jsiehler@gmail.com](mailto:jsiehler@gmail.com)). *Tiling Hamiltonian Cycles on the 24-Cell.*

We show how the quaternion structure of the 24-cell can be used to construct a solution to the recreational problem of tiling the edges of this polytope with congruent copies of a single Hamiltonian cycle. (Received September 03, 2012)