1120-05-247   **Jessica C De Silva*** (`jessica.desilva@huskers.unl.edu`). *Computational complexity of Hamiltonian ℓ-cycles.* Preliminary report.

A hamiltonian ℓ-cycle in an n-vertex k-uniform hypergraph is a cyclic ordering of the vertices such that every edge consists of k consecutive vertices and every pair of consecutive edges overlap in exactly ℓ vertices. Karpiński, Ruciński, and Szymańska studied the computational complexity of hamiltonian ℓ-cycles in dense hypergraphs for $\ell = k - 1$. Their results extend to all ℓ such that $(k - \ell)$ divides k. We study the case for ℓ such that $(k - \ell)$ does not divide k. (Received February 22, 2016)