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*Tight minimum degree condition for tiling a 3-graph with loose cycles*

Let  $C_t$  denote the loose cycle on  $t$  vertices, the 3-uniform hypergraph obtained from a graph cycle  $C$  on  $t/2$  vertices by inserting a new vertex  $v_e$  for every edge  $e \in C$ . For a 3-uniform hypergraph  $H$  let  $\delta(H) := \min_{v \in V(H)} |N(v)|$  denote the minimum degree of  $H$ . We will give a tight condition for  $\delta(H)$  which guarantees that a large enough 3-uniform hypergraph  $H$  on  $n \in tZ$  vertices has  $n/t$  vertex disjoint copies of  $C_t$ . This is a joint work with R. Oursler.