1112-05-566 **Jie Han** (jasonhan2011@gmail.com), **Allan Lo** (s.a.lo@bham.ac.uk), **Andrew Treglown** (a.c.treglown@bham.ac.uk) and **Yi Zhao*** (yzhao6@gsu.edu), Department of Math & Stat, Georgia State University, Atlanta, GA 30303. *Exact minimum codegree threshold for K_4^--factors in 3-uniform hypergraphs.*

Given two (hyper)graphs F and H, an F-factor in H is a family of vertex-disjoint copies of F which cover all the vertices in H. Let K_4^- denote the 3-uniform hypergraph with 4 vertices and 3 edges. We show that for sufficiently large $n \in 4\mathbb{N}$, every 3-uniform hypergraph H on n vertices with minimum codegree at least $n/2-1$ contains a K_4^--factor. The minimum codegree here is best-possible and resolves a conjecture of Lo and Markström, who earlier proved an asymptotic version of this result. Our proof makes use of the absorbing method as well as a result of Keevash and Mycroft concerning almost perfect matchings in hypergraphs. (Received August 11, 2015)