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Dhruv Mubayi* (mubayi@math.uic.edu), Department of Mathematics, Statistics, and, Computer Science, University of Illinois at Chicago, Chicago, IL 60607. *Co-degree density of the Fano plane.*

I will introduce co-degree problems for hypergraphs, and present a proof of the following result:

Each 3-uniform hypergraph on n vertices, in which every pair of vertices lies in at least $(1/2 + o(1))n$ triples, contains a copy of the Fano plane. (Received August 07, 2005)