

1119-05-110      **Tao Jiang\*** ([jiangt@miamioh.edu](mailto:jiangt@miamioh.edu)), Department of Mathematics, Miami University, Oxford, OH 45056. *Hypergraph Turan numbers via Lagrangians.*

Given an  $r$ -graph  $H$ , the Turan number  $ex(n, H)$  of  $H$  is the maximum size of an  $n$ -vertex  $r$ -graph  $G$  that does not contain  $H$  as a subgraph. We discuss some recent work by various authors, including myself and collaborators, on the exact determination (for large  $n$ ) of  $ex(n, H)$  for many  $r$ -graphs  $H$  of a certain type using the method of hypergraph Lagrangians. We also pose some related problems. (Received February 11, 2016)