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**A.P. Rao\***, Dept of Mathematics, University of Missouri-St. Louis, Saint Louis, MO 63121. *ACM rank two bundles on quintic threefolds.*

A general quintic threefold admits only finitely many ACM bundles of rank two, of 14 different types according to Chiantini-Madonna. We describe the classification and also various cases where the enumeration of these bundles is possible. (Received February 12, 2012)