Symmetric tensors: rank, Strassen's conjecture and *e*-computability

ENRICO CARLINI, MARIA VIRGINIA CATALISANO, LUCA CHIANTINI, Anthony V. Geramita and Youngho Woo

Al nostro grande amico Tony

Abstract. In this paper we introduce a new method to produce lower bounds for the Waring rank of symmetric tensors. We also introduce the notion of *e*-computability and we use it to prove that Strassen's conjecture holds in infinitely many new cases.

Mathematics Subject Classification (2010): 14Q20 (primary); 14M10, 15A21 (secondary).