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Zach Teitler* (zzeitler@boisestate.edu), 1910 University Drive, Department of Mathematics, Boise State University MS 1555, Boise, ID 83725-1555. *Sufficient condition for Strassen's additivity conjecture for Waring rank.* Preliminary report.

Strassen's additivity conjecture asserts that if $T \in V_1 \otimes \cdots \otimes V_d$ and $T' \in V'_1 \otimes \cdots \otimes V'_d$, then $T+T' \in (V_1 \oplus V'_1) \otimes \cdots \otimes (V_d \oplus V'_d)$ has rank equal to the sum of the ranks of T and T' . A version of the conjecture for symmetric tensors asserts that the Waring rank of a sum of homogeneous forms in independent variables is equal to the sum of the ranks of the summand forms. We give a sufficient condition for a stronger version of Strassen's conjecture for Waring rank. (Received February 12, 2016)