1163-03-1088 **Peter Cholak*** (cholak@nd.edu), cholak@nd.edu, and **Peter Gerdes** (gerdes@invariant.org), gerdes@invariant.org. *The Collapse of an REA hierarchy.* Preliminary report.

Consider the following statement S(m, n): If C is any set which is (m + 1)-REA and not of m-REA degree, there exists a set A which is n-r.e. in C such that $A \oplus C$ is not of (m + n)-REA degree. Soare and Stob [1982] showed this statement holds for m = 0 and n = 1. Cholak and Hinman [1994] showed that this statement hold for m = 0, 1 and arbitrary $n \ge 0$. They also conjectured it holds for all n and m. However, we will show that this statement fails for n = 2 and m = 1. (Received September 14, 2020)