A Reducible SAP With $2n - 1$ nonzero entries

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In this talk I will discuss an irreducible zero-nonzero pattern that is a counterexample to the $2n$ conjecture. The counterexample is a 49×49 zero-nonzero pattern and has 97 nonzero entries. In fact we can construct irreducible counterexamples for all $n \geq 49$. We will also take this example and construct patterns with $2n - k$ nonzero entries for any choice of k.

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