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Loren James Anderson*, loren.james.anderson@ndsu.edu, and **Peter D Johnson**.

Hypergraphs on the Integers.

In 2003, it was conjectured that for any two sets A and B of integers, each of the size 3, there is a 2 coloring of the integers such that no translate of A nor of B in the integers is monochromatic with respect to this coloring. However, in 2010, Balazs Gsztonyi produced a counterexample. During this talk, we make progress toward finding all possible counterexamples. Our strategies include finding colorings that eliminate counterexamples as well as showing how to construct counterexamples from previously known counterexamples. (Received September 16, 2014)