1099-37-320   **Scott Northrup*** (`snorthru@math.uci.edu`). *A Very Brief History on Arithmetic Sums of Cantor Sets.*

Dynamically defined Cantor sets on the Real line play an important role in Dynamical Systems and some problems in Number Theory. A key question regarding dynamically defined Cantor sets is when when the arithmetic sum of these sets will contain an interval; Palis conjectured that the sum will contain an interval when the sum of their Hausdorff dimensions is greater than one. In this talk we will discuss results related to Palis's conjecture, including a new result from the speaker and Gorodetski regarding sums of affine Cantor sets. (Received February 10, 2014)