

Meeting: 1003, Atlanta, Georgia, SS 6A, AMS-ASL Special Session on Reverse Mathematics, I

1003-03-1186 **Douglas K. Brown*** (dkb5@psu.edu), 3000 Ivyside Drive, Penn State - Altoona, Altoona, PA 16601. *An Introduction to Reverse Mathematics.*

We consider some of the philosophical motivations behind the program known as "Reverse Mathematics," a series of investigations into the set theoretic strength needed to prove theorems of "ordinary" mathematics. We will also introduce the basic structures in which these investigations occur, a set of subsystems of second-order arithmetic. (Received October 04, 2004)