1067-Z1-1265   **Entao Liu*** (`liuentao@gmail.com`), 1523 Greene St, Columbia, SC 29208. *Super Greedy Type Algorithms.*

The general theory of greedy approximation is well developed. Much less is known about how specific features of a dictionary can be used for our advantage. In this talk we discuss incoherent dictionaries and build several new greedy algorithms which are called the Super Greedy Type Algorithms. This type of algorithms are more efficient than a standard Greedy Algorithms. We analyze the rates of convergence with respect to incoherent dictionaries. (Received September 20, 2010)