1145-11-2449   **Angelica Babei***, angelica.babei.gr@dartmouth.edu. *Class and Type Numbers of Orders in Central Simple Algebras.*

Given any two orders in a central simple algebra, their completions will be equal almost everywhere. In case their completions are isomorphic everywhere, the question arises: do these local isomorphisms lift to global isomorphisms? The answer is that generally, they do not, and the number of such global isomorphism classes is given by the type number of the order. In this talk, we examine idelic methods and use strong approximation to find class and type numbers of some classes of orders in central simple algebras of arbitrary dimension $n^2, n \geq 3$. (Received September 25, 2018)