Given a representation $V$ of a group $G$, it is a classical problem to determine the centralizer of its action on the $n$-th tensor power of $V$. If $V$ is the natural module of a classical Lie group, this led to the famous Schur-Weyl and Brauer-Weyl dualities.

In this talk, we solve this problem for the spinor representation $S$. For even-dimensional Spin groups, the centralizer on the $n$-th tensor power of $S$ is given by a representation of $SO(n)$, with a similar result also for the odd-dimensional Spin groups. Time permitting, we discuss generalizations of this result to quantum groups and to classification of tensor categories.

Please note: There will be a pre-talk for graduate students from 2:30 - 3:00. The regular talk will begin at 3:00.