1145-20-2945 **Angela Kraft\*** (`akraft@math.arizona.edu`). *Constructing Basic Algebras.*

To study representations of a group algebra $FG$, it is often beneficial to study a generally much smaller algebra whose module category is equivalent to the module category of $FG$. This generally much smaller algebra is known as the basic algebra. In the case where $G$ is a finite simple group, K. Lux has developed algorithmic methods for computing the basic algebra of $FG$. We will discuss basic algebras and how to extend the computational methods of K. Lux to the case where $G$ is a central extension of a finite simple group. (Received September 25, 2018)