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In modular representation theory, one of the main objects of interest is the stable module category $\mathbf{stmod}(RG)$ of a group algebra RG . In particular, if R is a field, then it is well known that $\mathbf{stmod}(RG)$ is a triangulated category. In 2012, Benson, Iyengar and Krause defined a new exact structure on the module category $\mathbf{mod}(RG)$ for any commutative ring R in such a way that the resulting stable category is always triangulated. In this talk we'll discuss the support theoretic aspects of these new stable categories and some recent progress that has been made in computing the prime ideal spectrum (in the sense of Balmer) of $\mathbf{stmod}(RG)$ in the case where G is the cyclic group of order p and R is the commutative ring \mathbb{Z}/p^n . (Received September 22, 2015)