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2. Algebra

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**Crossed Burnside rings of finite groups**

Let $G$ be a finite group. A **c**rossed $G$-set $X$ is a finite $G$-set equipped with a $G$-weight function $|x|$. The Grothendieck ring $X\Omega(G)$ of finite crossed $G$-sets is called the **c**rossed Burnside ring. Then we have an embeding into the crossed ghost ring, an idempotent formula, an action on Mackey funtors.