

On the interplay between the ‘chameleon’ groups $G_{n,r}$ and the automorphism groups of bi-infinite full shift spaces

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We begin with our result characterising the automorphisms of the Higman-Thompson groups $G_{n,r}$, and show how the groups $\text{Aut}(0, 1, \dots, n - 1^{\mathbb{Z}}, \sigma)$ sit naturally as subgroups of the outer automorphism groups $\text{Out}(G_{n,r})$. This leads to new combinatorial representations of elements of $\text{Aut}(0, 1, \dots, n - 1^{\mathbb{Z}}, \sigma)$. We use these representations to uncover information, both old and new, about the groups $\text{Aut}(0, 1, \dots, n - 1^{\mathbb{Z}}, \sigma)$.

Joint with J. Belk, P. Cameron, A. Navas, F. Olukoya, and Y. Maissel.
