

Positive definite functions on Coxeter groups

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Abstract

For an element w of a Coxeter group (W, S) , with a reduced representation $w = s_{i_1}s_{i_2}\dots s_{i_n}$ we define its *length* $|w| := n$, *colour* $S(w) := \{s_{i_1}, s_{i_2}, \dots, s_{i_n}\}$ and *colour-length* $\|w\| := \#W(w)$. We are going to study positive definite functions on W which are constant on elements of the same length, colour and colour length respectively. The talk is based on a joint work with Światosław Gal and Marek Bożejko.