

## **Coxeter groups are biautomatic**

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Coxeter groups are groups generated by involutions  $s_i$ , with the relations of form  $(s_i s_j)^m = id$ . For each Coxeter group, we will be discussing a particular system of “voracious” paths between any two vertices of the Cayley graph. This system turns out to have the “fellow traveller” property and is generated by a finite state automaton.

**(joint work with Damian Osajda)**