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Labelled geodesics in Coxeter groups

Geodesics play an essential role in studying Cayley graphs of groups. I will define the notion of a uniquely labelled geodesic and study such geodesics in Cayley graphs of certain Coxeter groups. I will give a formula for the maximal length of such a geodesic. More specifically, I will present a generating function which describes the number of uniquely labelled geodesics with each label, from which we can deduce results about the overall number of such geodesics. This is joint work with Kirill Zainoulline.