

Conjugacy, languages and groups

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Formal language theory has found surprising applications in group theory in recent years. In this talk, we will introduce languages associated to conjugacy classes. By studying properties of these languages, we will explore what this tells us about counting conjugacy classes in a group. Finally, we will consider if and when certain properties of these languages can be extended via quasi-isometries, including recent work on virtual right-angled Artin groups.