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*Out( $G$ ) and its action on the Deformation Space of  $G$ -trees*

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Given  $G = A_1 * A_2 * A_3 * A_4$ , a free product of finite groups; we are interested in understanding  $\text{Out}(G) := \text{Aut}(G)/\text{Inn}(G)$ .

In this talk we will inspect the action of  $\text{Out}(G)$  on the deformation space of  $G$ -trees to find a quasi generating set. We will use the generating set to prove algebraic thickness of  $\text{Out}(G)$ . This will imply that  $\text{Out}(G)$  is non relatively hyperbolic.

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