

Table [

**lhs** =  $R_{1,2} \bar{R}_{3,4}$  //  $m_{1,3 \rightarrow 1}$  //  $m_{4,2 \rightarrow 2}$ ; **rhs** =  $\eta_1 \eta_2$  // Expand;

HL [**lhs** == **rhs**],

{**\$CIS**, ConjugacyClasses[\$G]}