

8/ 7 [Miles Reid] Trihedral groups: old and new ideas and methods, (with many problems still to solve)

Section 1. What groups are we talking about? $G = A \rtimes T$ with A diag in $SL(3)$ and T the 3-cycle (x,y,z)

Section 2. Affine pieces of G -Hilb corr. to combinatorics (a) Leng partitions (b) trihedral boats

Section 3. (a) and (b) by computer algebra: Running my Magma code is a fun, easy do-it-yourself game: follow the instructions on <https://homepages.warwick.ac.uk/~masda/McKay/tri>

Section 4. Compute some affine pieces in the baby case $A = V_4 = \mu_2 + \mu_2$ by generators and relations (or as quiver moduli, somewhat implicitly).

My title says ideas, methods and open problems, not results or theorems.