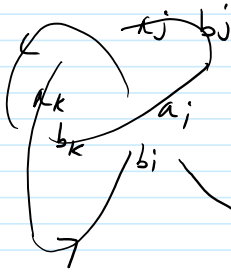


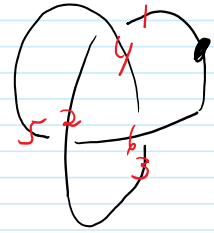
17-1350-AKT Fri Feb 10, Brute Hour 5: Re-Ordering Gaussians in \mathfrak{g}_0

January 19, 2017 2:20 PM



$$R = \sum a_k \otimes b_j \in A \otimes A = U(\mathfrak{g}) \otimes U(\mathfrak{g})$$

$$\text{s.t. } R^{12} R^{13} R^{23} = R^{23} R^{13} R^{12}$$



$$\sum_{i,j,k} b_j a_i b_k a_j b_i a_k \in U(\mathfrak{g})$$

Today: $\mathfrak{g}_0 = \langle h, e, l, f \rangle / [e, l] = -l$ $[f, l] = f$ $[e, f] = h$
h central

$$r = h \otimes l + l \otimes f \quad R = \exp(r)$$

Note $U(\mathfrak{g}_0)^{\otimes S} = U(\bigoplus_S \mathfrak{g}_0) = U(\langle h_i, e_i, l_i, f_i \rangle / [e_i, l_i] = f_i; l_i \text{ etc.})$
h_i central

On to Mathematica at 170210-g0Gaussians.nb