2D1b

April-03-15 11:00 AM

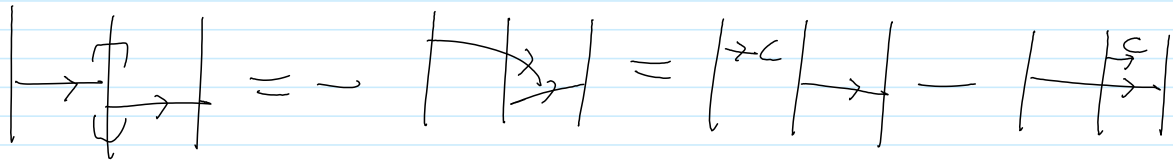
The β-Lie algebra:

$L_n(\beta) := \langle a_{ij} \rangle$ over $\mathbb{Q}[c_i]$ modulo

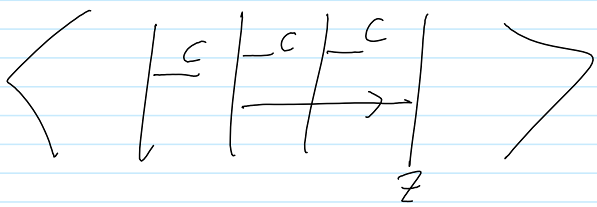
$[a_{ij}, a_{kl}] = 0$

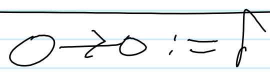
$[a_{ij}, a_{ik}] = 0$

$[a_{ik}, a_{jk}] = -[a_{ij}, a_{jk}] = \beta(c_i a_{jk} - c_j a_{ik})$

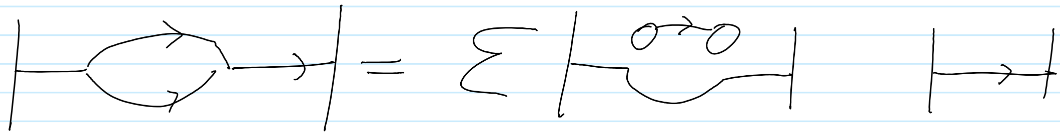


So there is a representation of A^v on

 $= \mathbb{Q}[c_1 \dots c_n] \otimes \mathbb{Q}^n$

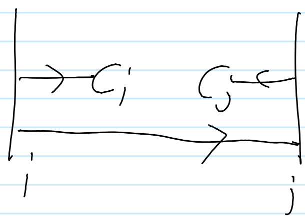


"A^{co}"

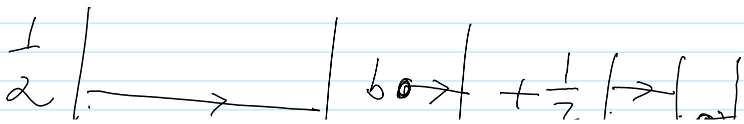


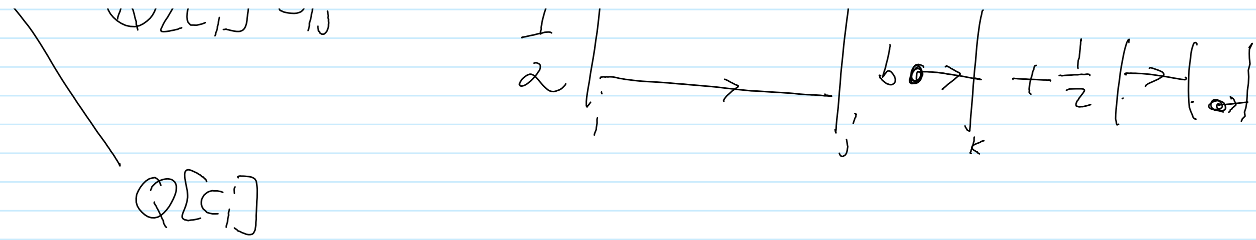
The 2D1b Lie algebra:

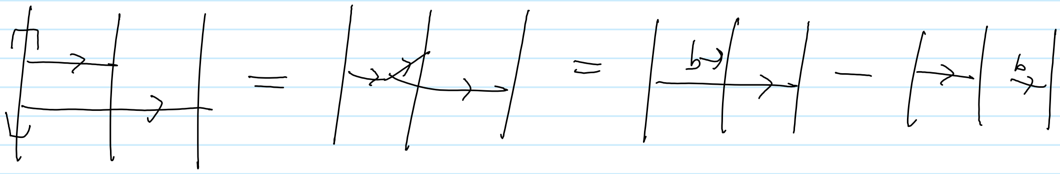
$L_n :=$ $\mathbb{Q}[c_i]\, a_{ij}$:

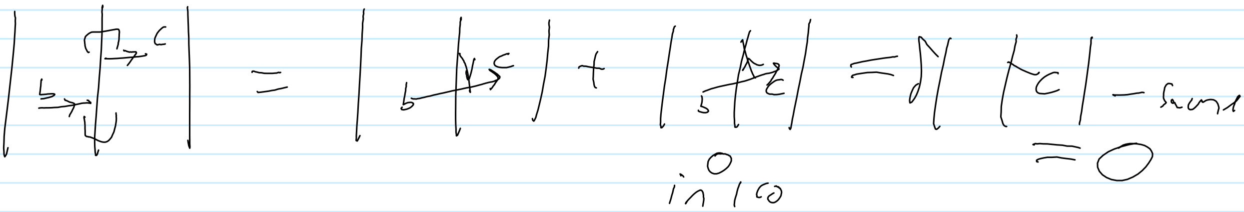


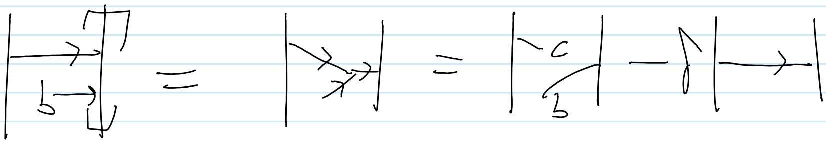
$\mathbb{Q}[c_i]\, b_{ij}^k$:











There should be a representation of $\mathcal{A}^\vee$ on