

Tuesday, March 9, 2010

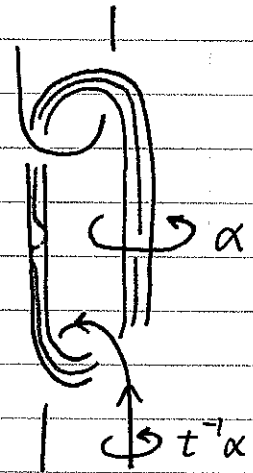
* Handout given with illustrated example

As a group, $\langle \alpha_i, \beta_i | \dots \rangle$

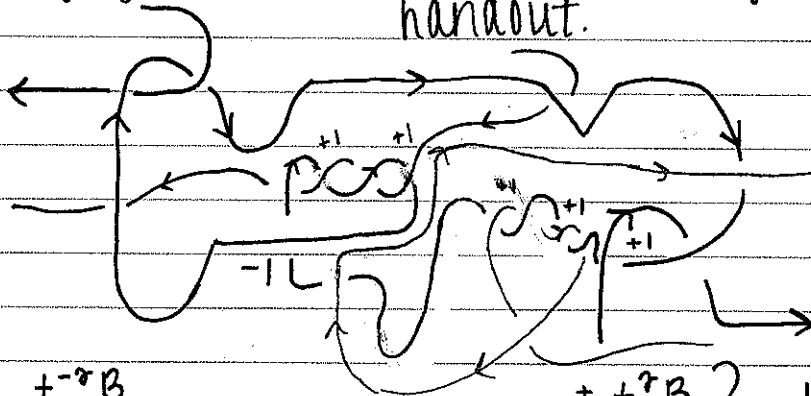
As a Λ -module, $\langle \alpha, \beta | (-t^{-1} + 1 - t)\alpha + (t^{-1} - 1)\beta \dots$

a.k.a. $H_1(\tilde{X}) = \langle \alpha, \beta | r_1, r_2 \rangle$

$$\cong \Lambda / p(t)$$



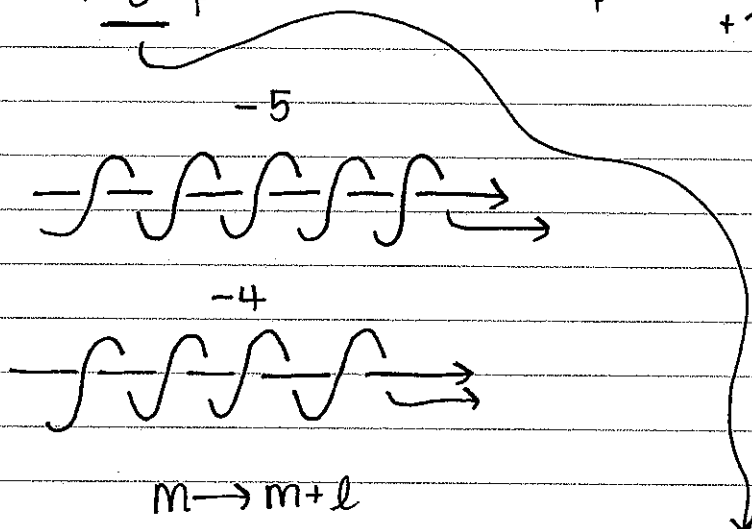
Recopying picture from last Thursday's handout.



$$\left. \begin{array}{l} t^{-2}\beta \\ + 2t^{-1}\beta \quad \vee \quad + 2t\beta \\ + t^2\beta \end{array} \right\} 1 + 2 - 5 + 2 + 1 = 1 \checkmark$$

$$\underline{-5\beta}$$

$$p(t) = t^{-2}\beta + 2t^{-1}\beta - 5\beta + 2t\beta + t^2\beta$$



$$m \rightarrow m+l$$

$$m \rightarrow l + (-4-1)m \quad \text{or} \quad m \rightarrow l - 5m$$