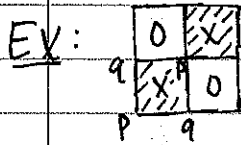


Thursday, April 22, 2010

* Handout given *

Finished discussing grid diagrams.



$$D = \{(\frac{1}{2}, \frac{3}{2}), (\frac{3}{2}, \frac{1}{2})\} \quad p = \{(0,0), (1,1)\}$$

$$I(D, D) = 0$$

$$I(D, D) = 0$$

$$I(p, p) = 1$$

$$I(q, q) = 0$$

$$I(p, D) = 2$$

$$I(q, D) = 2$$

$$I(D, p) = 0$$

$$I(D, q) = 0$$

$$M(p) = 1 - 2 - 0 + 0 + 1 = 0$$

$$M(q) = -1$$

$$I(X, X) = 1$$

$$I(X, X) = 1$$

$$I(q, q) = 0$$

$$I(p, p) = 1$$

$$I(q, X) = 2$$

$$I(p, X) = 3$$

$$I(X, q) = 0$$

$$I(X, p) = 1$$

$$M_x(q) = 0$$

$$M_x(p) = -1$$

$$A(q) = \left(\frac{0 - (-1)}{2}\right) - \frac{2-1}{2} = \frac{1}{2} - \frac{1}{2} = 0$$

$$A(p) = \left(\frac{-1}{2}\right) - \left(\frac{2-1}{2}\right) = -\frac{1}{2} - \frac{1}{2} = -1$$

$$\tilde{\partial}(p) = 0$$

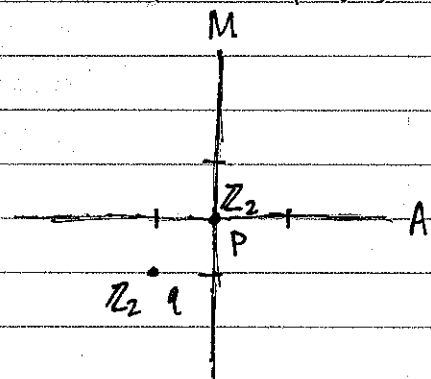
$$\tilde{\partial}(q) = 0$$

$$M(p) = 0$$

$$M(q) = -1$$

$$A(p) = 0$$

$$A(q) = -1$$



$$e(0,1) \xrightarrow{\partial} e(0,0) \xrightarrow{\partial} e(0,-1)$$

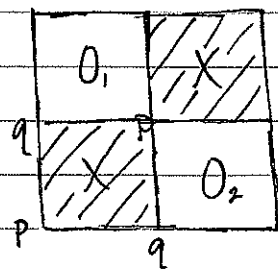
$$0 \rightarrow \{0, p\} \rightarrow 0$$

$$\mathbb{Z}_2$$

$$\ker \partial_0 = \frac{\langle p \rangle}{0} = \mathbb{Z}_2$$

$$M(p) = 0$$

$$M(q) = -1$$



$$M(u_1, p) = 0 - 7 = -7$$

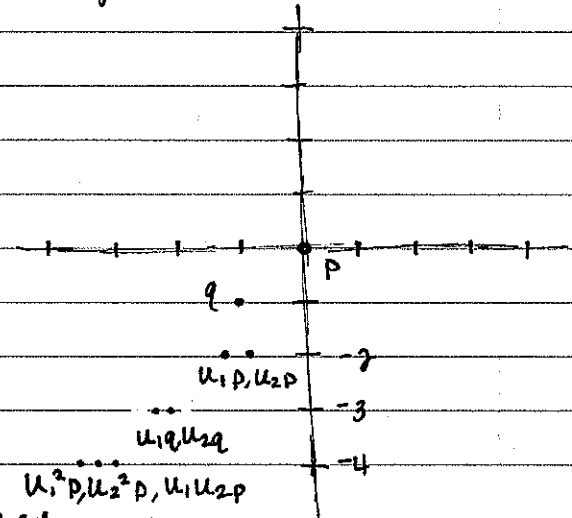
$$M(u_1, u_2, q) = -1 - 7(7) = -5$$

$$M(u_1^5 u_2^2, q) = -1 - 7(7) = -15$$

NOTE: The default subscript for Maslov grading is 0

$$\partial^-(p) = 0$$

$$\partial^-(q) = u_{1,p} + u_{2,p}$$



$$e(-1, 0) \xrightarrow{\partial^-} e(-1, -1) \xrightarrow{\partial^-} e(-1, -7) \xrightarrow{\partial^-} e(-1, -3)$$

$$0 \rightarrow \langle q \rangle \xrightarrow{\partial^-} \langle u_{1,p}, u_{2,p} \rangle \rightarrow 0$$

$$\partial^- q = \langle u_{1,p} + u_{2,p} \rangle$$

A mistake here somewhere??
 ... we'll return to this later.