

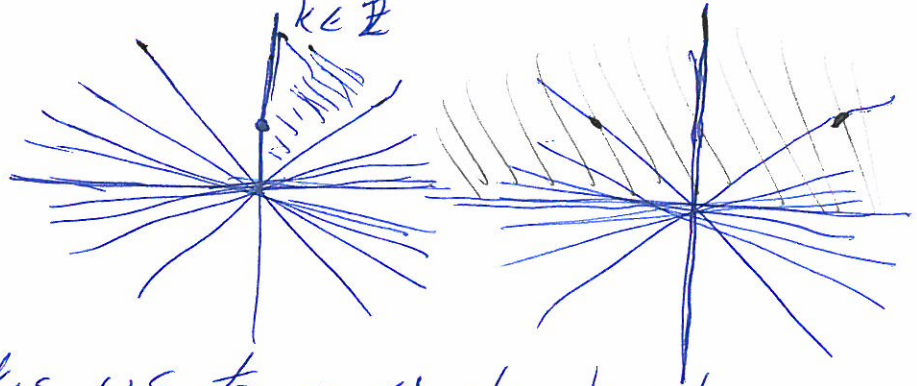
10.04.2014  
3 pole braids

(3)

# Deformation retract

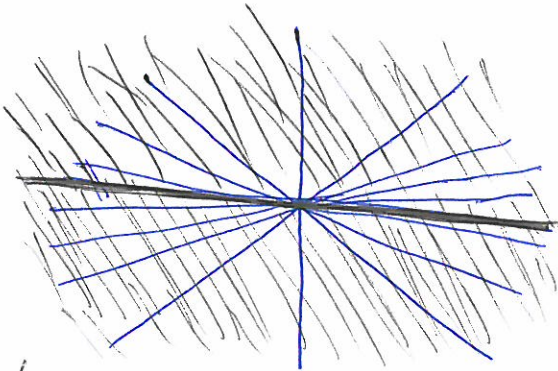
$$Y \rightarrow \frac{Y}{\xi}$$

$$Y = \mathbb{C}^2 - \bigcup_{\substack{\alpha \in \mathbb{R}^+ \\ k \in \mathbb{Z}}} \gamma^{\alpha + k\xi} + i\gamma^{\alpha + k\xi}$$



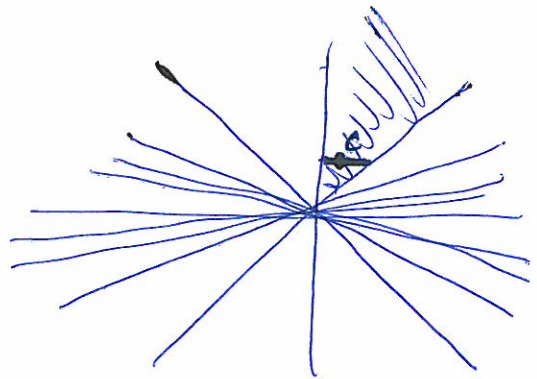
The retract takes us to a single level  
So this takes  $\mathbb{C}$  and retracts it to a pt.

NO we need to get the basepoint in the picture. So we must have instead



retract to  $\mathbb{R}\Lambda_0$  in real coordinate

So we have  $\mathbb{R} + i[0, 1)\Lambda_0$  or  $\mathbb{R} + i\mathbb{R}$



retract onto  $i\Lambda_0$  in complex coordinate

~~$\mathbb{R} + i\mathbb{R}$~~   $\Lambda_0 = (\mathbb{R} + i[0, 1))\xi_0 + (0 + i)\Lambda_0$   
or  $(\mathbb{C} - i\mathbb{Z})\xi_0 + (0 + i)\Lambda_0$

10.04.2014  
390le brands

(4)

$$\tilde{Y} = \mathbb{C}^3 - \bigcup_{\substack{\alpha \in \mathbb{R}^+ \\ k \in \mathbb{Z} \\ m \in \mathbb{Z}}} \left\{ \begin{array}{l} \alpha + k\delta, m \\ + i \zeta \end{array} \right\} \alpha + k\delta, 0.$$

