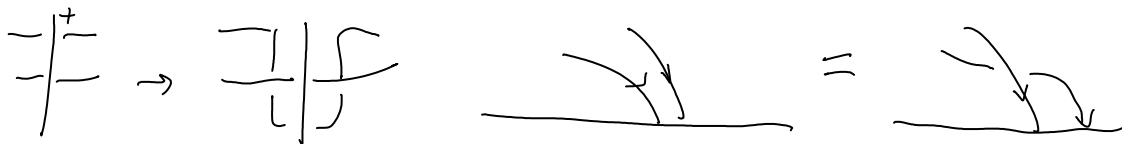
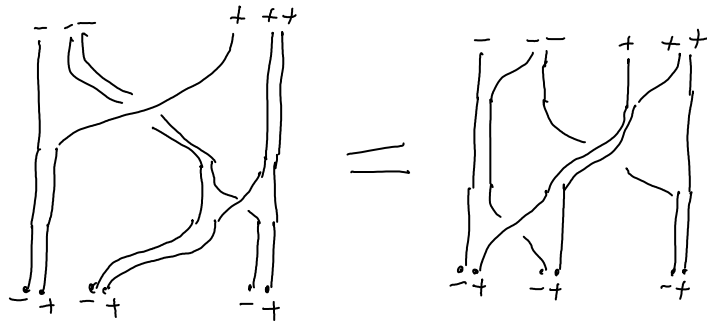
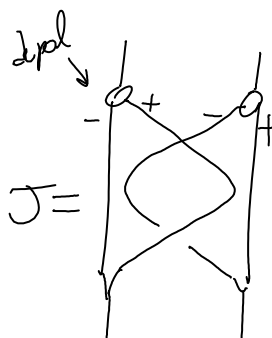


Question What is the general principle at work, in the moving around of  $J$ 's, in the Haviv argument:

$$\Phi (1 \otimes \Delta) J \cdot J^{23} = (\Delta \otimes 1) J \cdot J^{12}$$



Question Is there a polarization principle for general biracks? Will it inspire a structure theory for the free birack? What's a birack?



Properties of the dupl vertex:

