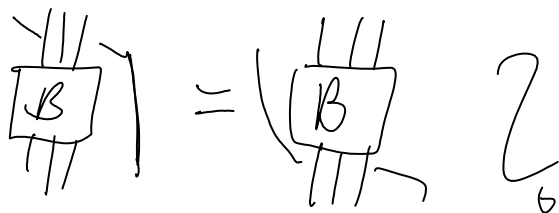


1. Is there a structure theory for the welded braid group, in the spirit of

$$PB_n = F_1 \times F_2 \times F_3 \dots \times F_{n-1} \quad \mathbb{Z}_0$$

Fenn says: Luis Paris may know; read his papers or send him an email.

2. Is the image of honest braids within welded braids characterised by the property



3. Do welded braids inject into welded tangles?

And infinitesimally, does  $\vec{A}^{wt,hor}$  inject into  $\vec{A}^{wt}$ ? (Restrict to primitives?)

4. Can we identify the image of welded braids within welded tangles?

And infinitesimally, can we identify the image of  $\vec{A}^{wt,hor}$  in  $\vec{A}^{wt}$ ? (Primitives?)

$$\left[ \begin{array}{c} \rightarrow \\ \downarrow \\ \rightarrow \\ \downarrow \\ \rightarrow \end{array} \right] = \left[ \begin{array}{c} \rightarrow \\ \downarrow \\ \rightarrow \\ \downarrow \\ \rightarrow \end{array} \right] \left[ \begin{array}{c} \rightarrow \\ \downarrow \\ \rightarrow \\ \downarrow \\ \rightarrow \end{array} \right] = 0$$

$$\left[ \begin{array}{c} \rightarrow \\ \downarrow \\ \rightarrow \\ \downarrow \\ \rightarrow \end{array} \right] = \left[ \begin{array}{c} \rightarrow \\ \downarrow \\ \rightarrow \\ \downarrow \\ \rightarrow \end{array} \right]$$

Warning:  
Rotated notation.