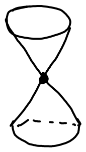
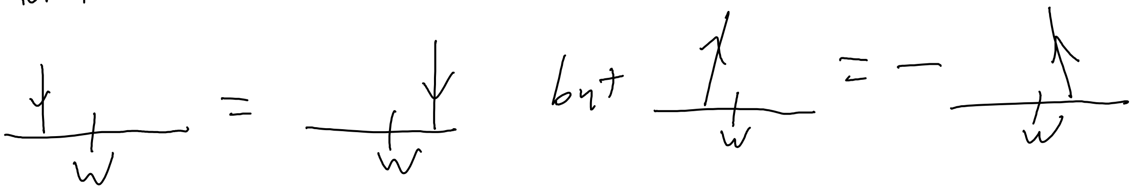
Pinched Tori

July-27-10
10:17 AM

<u>Question</u> what is $\mathcal{A}^w(\bigcirc_n^p)$, where $T_P =$ | denotes a pinch point:  ?

<u>Added August 24:</u> There's also "Wen-closure" $\bigcirc^w$, and possibly combinations like $\frac{1 \pm W}{2}$.

Reminder:



There's also capping on one side or both....

Answer to original question (Aug 24): (Though only in the wA quotient)

There are well-defined surjections

$$\mathcal{A}^{wA}(\bigcirc_n^p) \twoheadrightarrow \mathcal{A}^{wA}(\bigcirc_n)$$
$$\mathcal{A}^{wA}(\bigcirc_n^p) \twoheadrightarrow \mathcal{A}^{wA}(\,\cdot\!\!\diagdown\!\!\circ_n\,)$$

$\mathcal{A}^{wA}(\bigcirc_n)$ carries only linking numbers [as in 2010-08/Link Relations in the wAlex envelope], and the argument carries through to show that $\mathcal{A}^{wA}(\bigcirc_p)$ carries only linking numbers. Thus all three spaces above carry only linking numbers.