

Scratch

December-09-13 7:27 AM

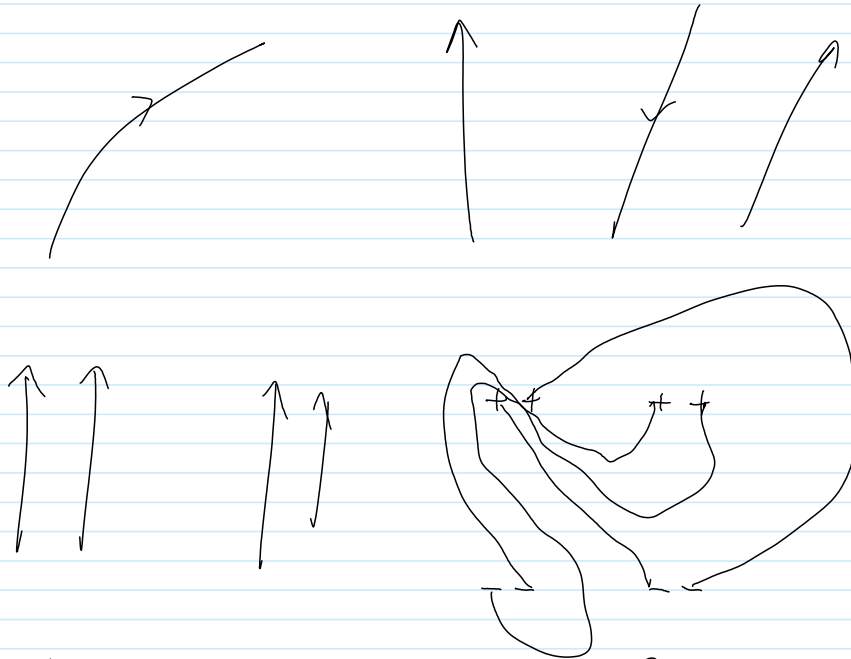
+ + + +

- - - -

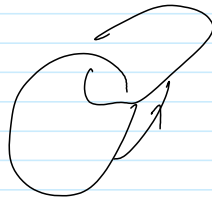
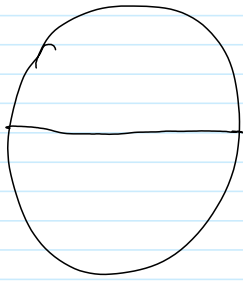
+ points are hard-paired, combinatorially
- points are hard-paired, combinatorially.

Pairs are soft-paired, topologically.

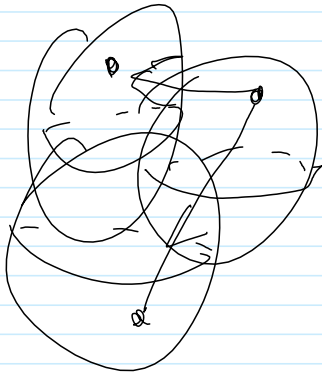
A pairing of oriented intervals



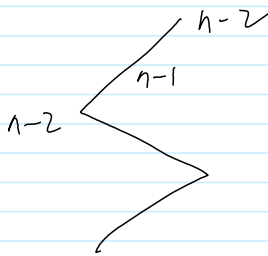
David Cimasoni: Can smooth knots!



$$\log T^2 \longrightarrow S^2$$



$$S^2 \times S^2 \times S^2 \longrightarrow S^3 \times S^3$$

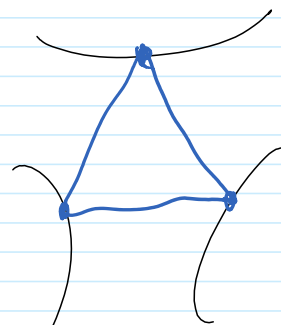
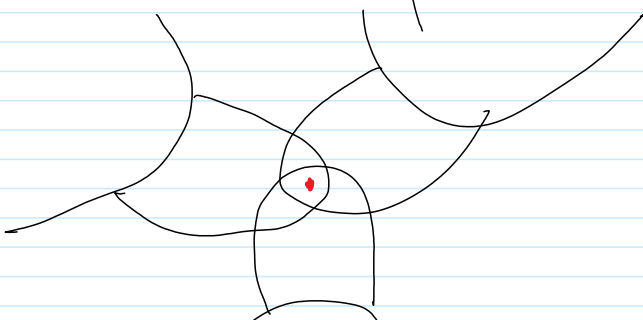
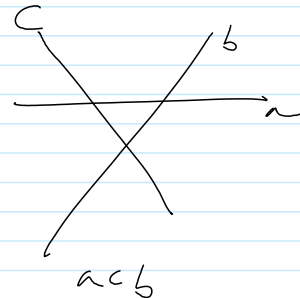
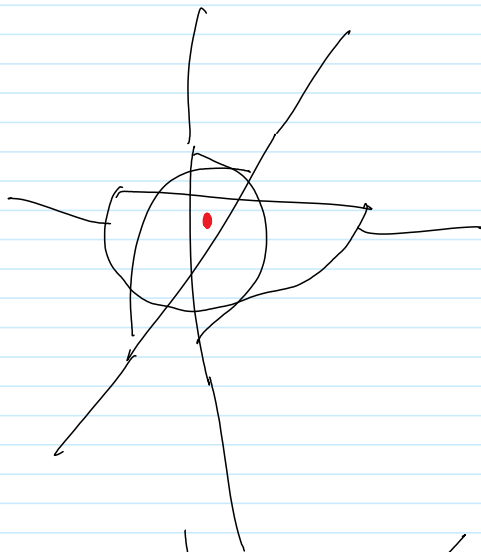


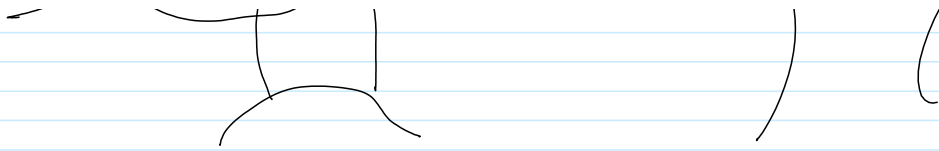
$$3(n-1) = 4(n-2)$$

$$3n-3 = 4n-8$$

$$5 = n$$

How does Alexander duality interact with products?



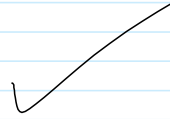


$$\beta \bar{\alpha} = -\alpha \quad ?$$
$$\stackrel{?}{=} -\alpha \bar{\beta} = -\alpha.$$

α, β

$$\bar{\alpha} \beta = \beta \alpha$$

$$\bar{\alpha} \beta = -\bar{\beta} \alpha$$



$$u = -\beta \alpha : \alpha \mapsto \beta$$
$$\beta \mapsto -\beta \alpha \stackrel{?}{=} -\alpha$$

