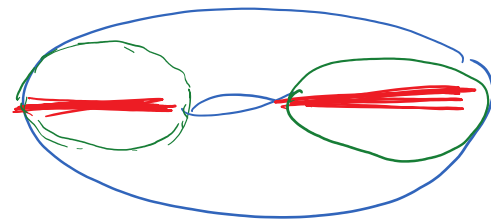
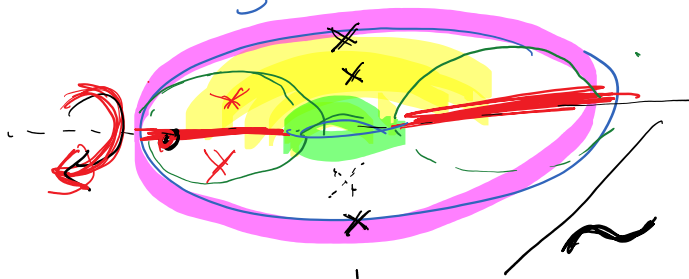
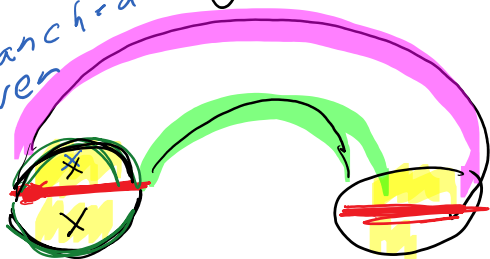


solid torus

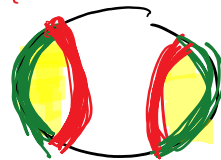


solid torus

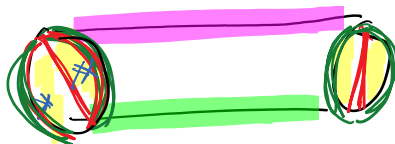
double branched cover

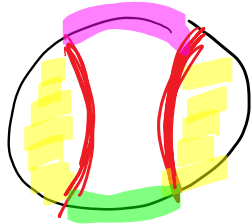
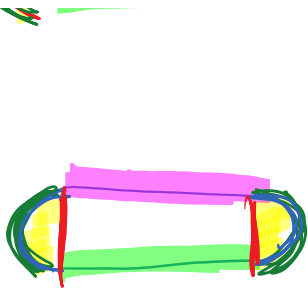


NW

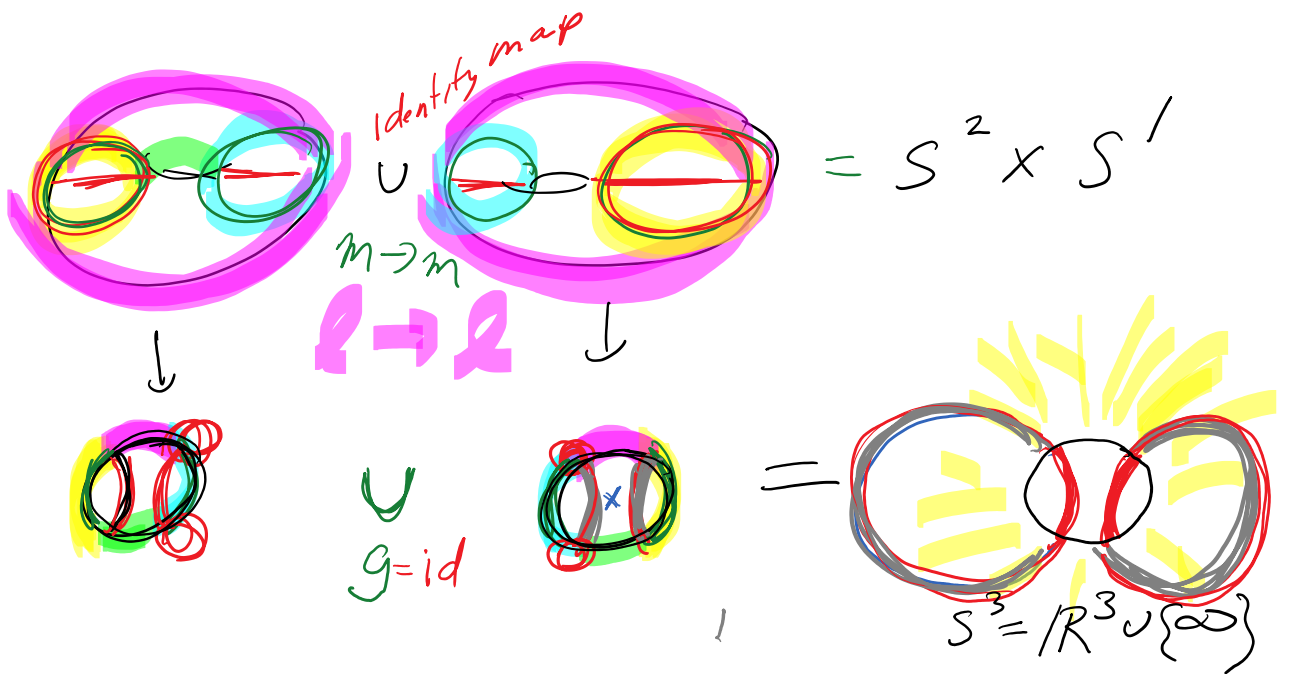


∞ tangle



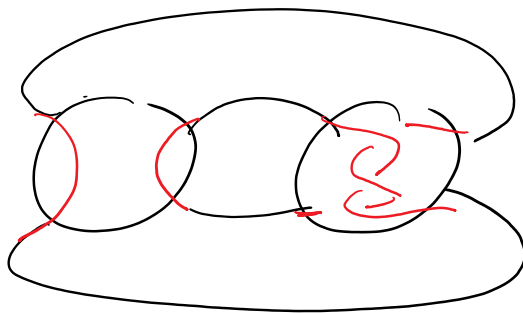
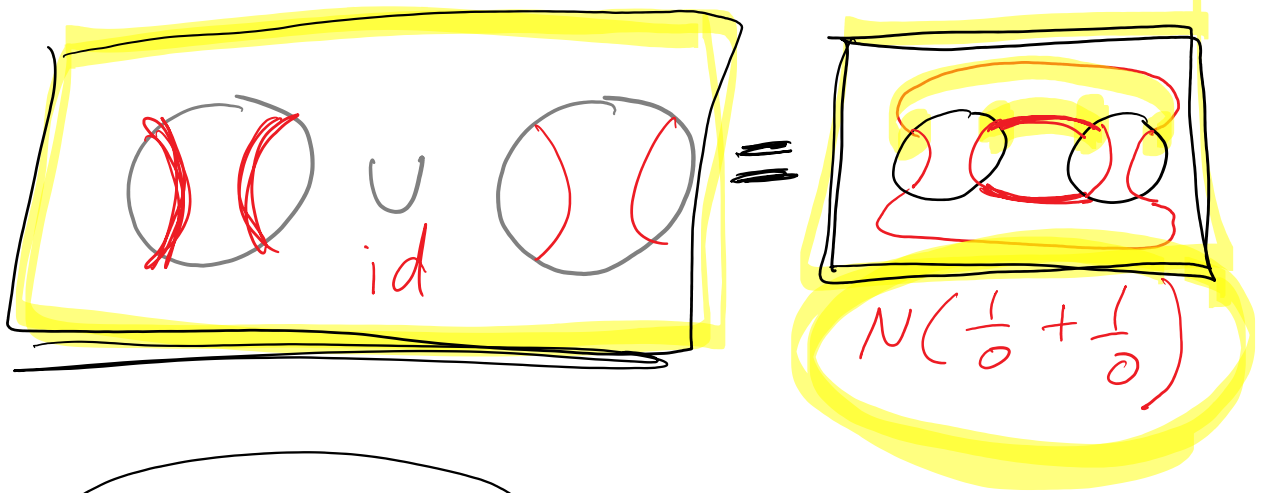


Double branched cover of a rational 2-string tangle is a solid torus

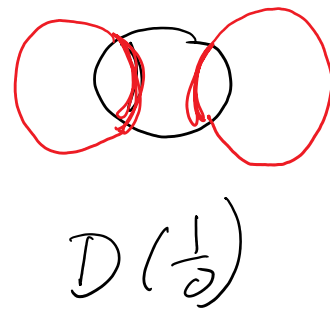
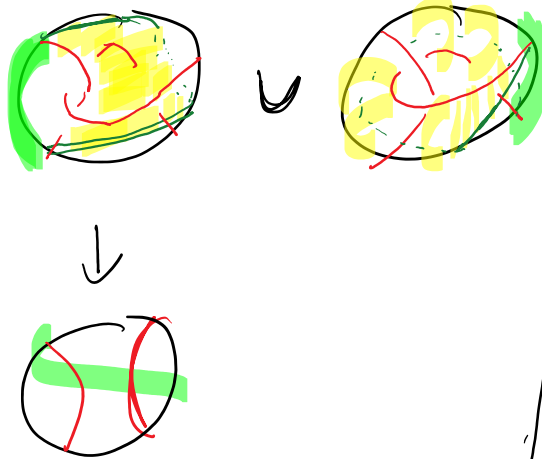


$S^2 \times S^1$ is the double branch cover of S^3 branched over unlink of 2 components

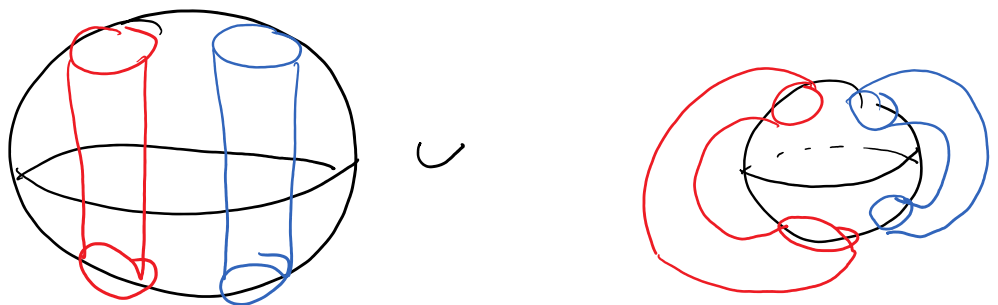
HW 1: What if you glue $m \rightarrow l$



$m \rightarrow ?$

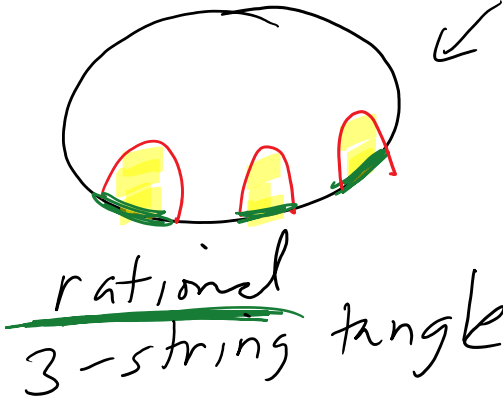


$S^3 =$

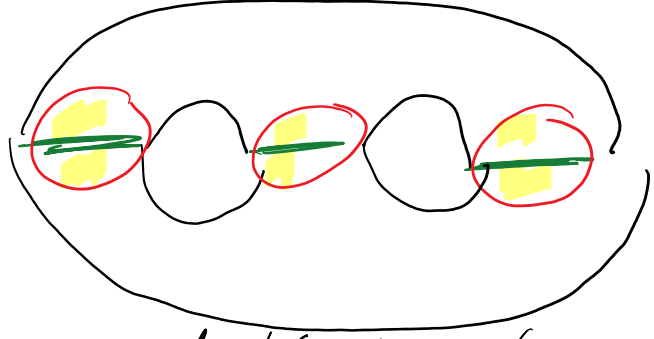




handbody decomposition of S^3



rational
3-string tangle



double branch cover
||
of rational
3-string

