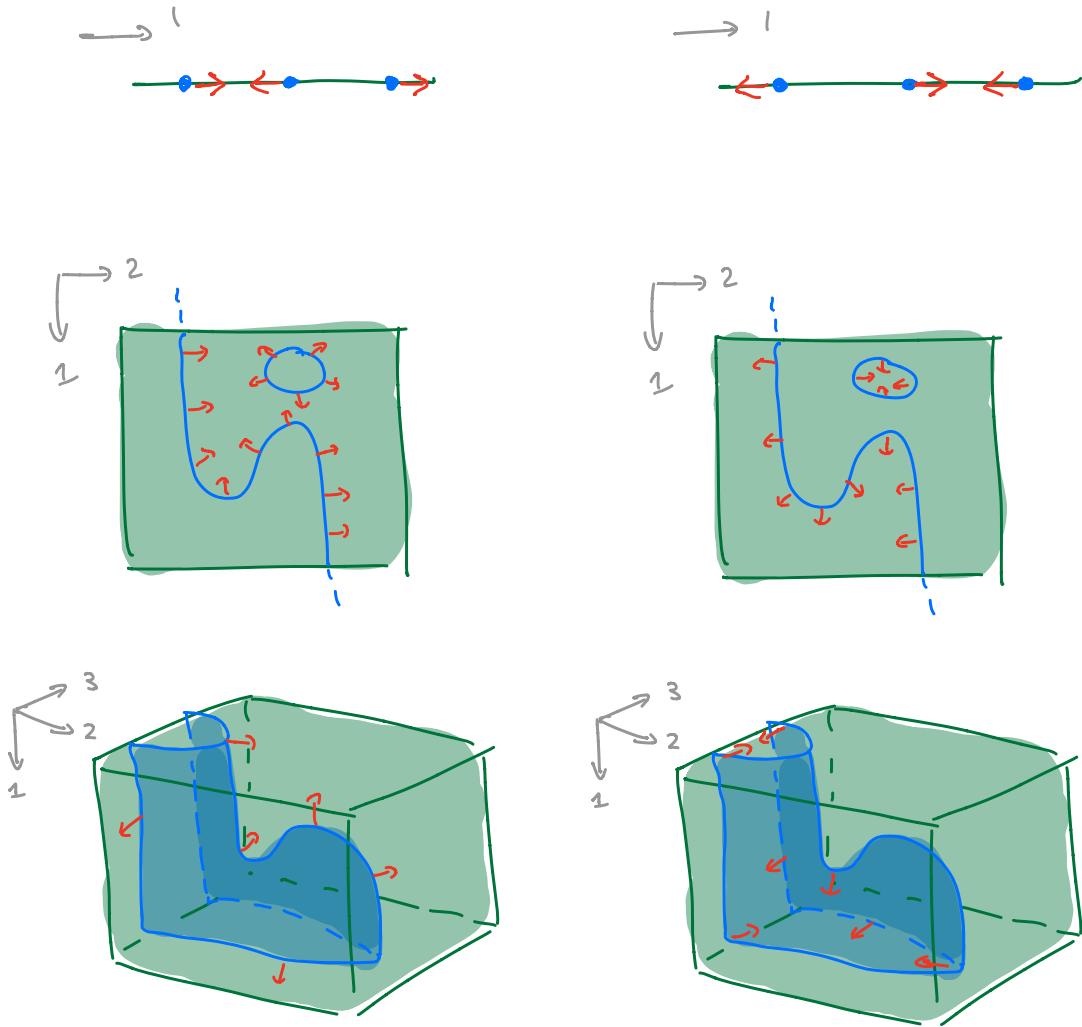
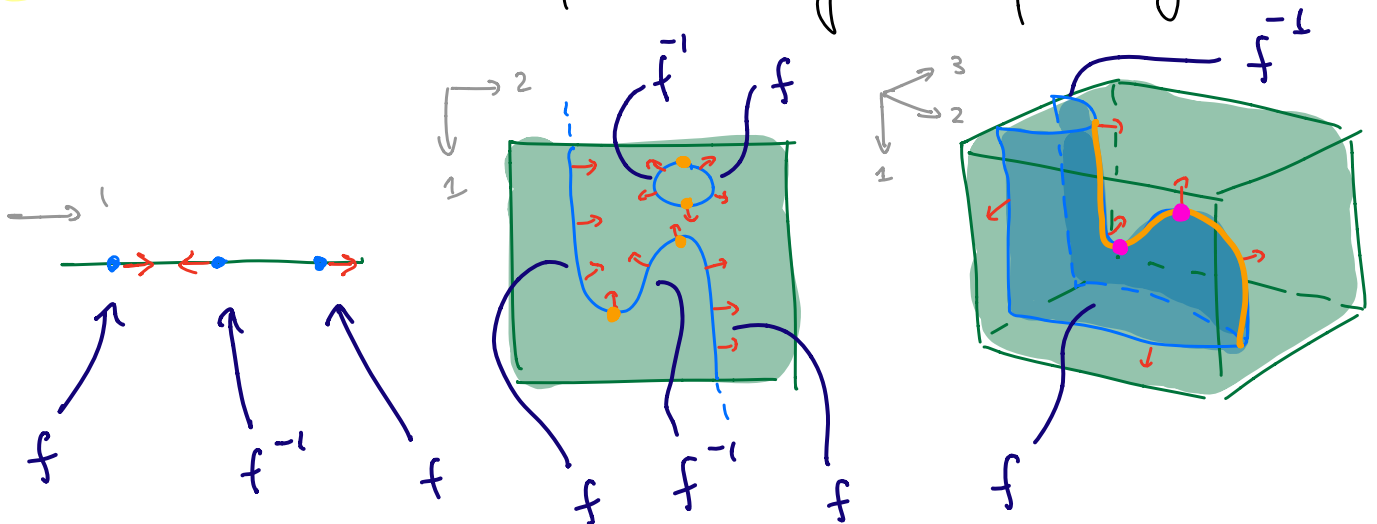


① normal framed tangles



② induced manifold diagram framings



explanation:

for an "f stratum" the projection  
 $\mathbb{R}^m \times \mathbb{R} \rightarrow \mathbb{R}$  maps frame vectors  
to positive vectors, and for " $f^{-1}$ "  
to negative vectors

e.g

