

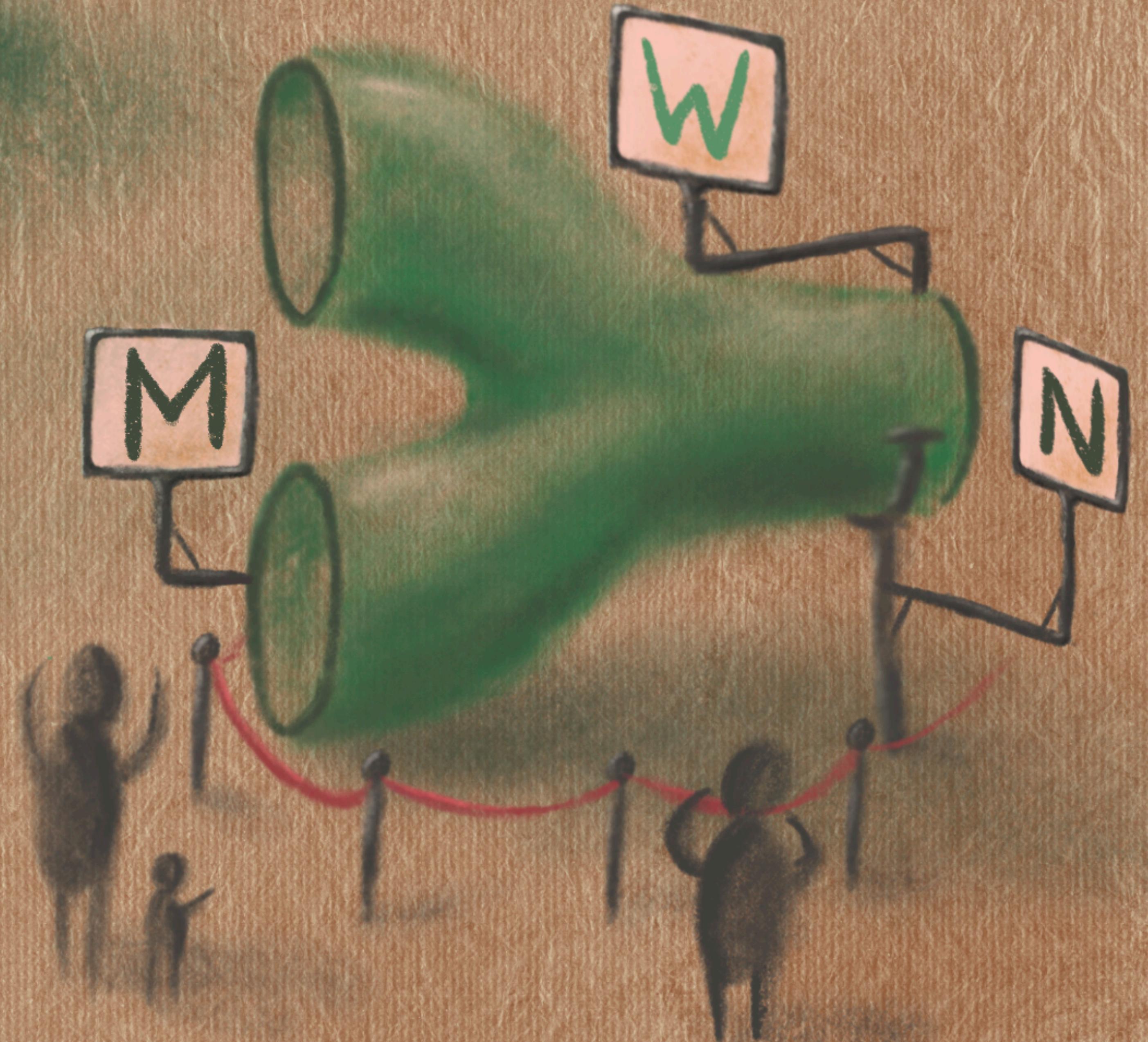
Cobordisms

$$M \sqcup N = \partial W$$

boundary

coboundary

$M \pitchfork N$ cobordant



Equivalence Relation

Reflexive



$$\partial(M \times [0,1]) = M \sqcup M$$



Symmetric



$$M \sim N \iff N \sim M$$



Transitive



$$\begin{aligned} M \sim M' \& \ M' \sim M'' \\ \Rightarrow M \sim M'' \end{aligned}$$

