Cobordism Categories, Classifying Spaces, and (invertible) TQFTs III

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CORRECTIONS: (from previous talks)

$$Cob_1, [Cob_1] = \begin{cases} \mathbb{Z} \\ \mathbb{Z}/2 \end{cases}$$

$$\boxed{\begin{array}{l} V \\ V \times X \end{array} \quad \text{all ob. dual}}$$

PROBLEM SESSION I.

Def. The <u>path</u> <u>space</u> of X is $P(x) = maps([0,1], X)$

The <u>Moore</u> <u>path</u> <u>space</u> of X is

$$M(x) = \coprod_{t > 0} maps([0,t], X)$$

topologized s.t. the map to $(0, \infty)$ is continuous