# Blob homology, part $\mathbb{I}$

Scott Morrison
http://tqft.net/
joint work with Kevin Walker

UC Berkeley

Homotopy Theory and Higher Algebraic Structures, UC
Riverside, November 10 2009
http://tqft.net/UCR-blobs1

# Outline

## What is *blob homology*?

The blob complex takes an *n*-manifold *M* and an '*n*-category with strong duality' $\mathcal{C}$ and produces a chain complex, $\mathcal{B}_*(M; \mathcal{C})$.

$$\mathcal{B}_*(M; \mathcal{C}) \longrightarrow A(M; \mathcal{C})$$

## What is *blob homology*?

The blob complex takes an *n*-manifold $M$ and an '*n*-category with strong duality' $\mathcal{C}$ and produces a chain complex, $\mathcal{B}_*(M; \mathcal{C})$.

$HH_*(\mathcal{A})$

$$\mathcal{B}_*(M; \mathcal{C}) \longrightarrow A(M; \mathcal{C})$$