

# BVPs (and IVPs)

Pretty important for actually solving and modelling stuff

- $D$  represents the whole system
- $D_0$  represents the boundary of the system
- $D \rightarrow D_0$  projects the system onto its boundary
- A lift  $\overline{D}_0$  of  $D_0$  is a choice of boundary data
- N.B. unlike in “classical” algebraic topology, we allow extension-lifting problems to be non-strict, i.e. to have non-trivial 2-cells

5. "I want more category  
theory"