

$$\begin{array}{c} \bigoplus_a \end{array} \mathcal{H} \left(\begin{array}{c} \text{annulus } a \\ \text{outer boundary } M \\ \text{inner boundary } \bullet \end{array} \right) \amalg \left(\begin{array}{c} \text{disk } \hat{a} \\ \text{boundary } N \\ \text{center } \bullet \end{array} \right) \xrightarrow{\cong} \mathcal{H} \left(\begin{array}{c} \text{annulus } N \\ \text{outer boundary } M \\ \text{inner boundary } \bullet \end{array} \right)$$

Diagram illustrating a mapping (isomorphism) between two configurations of regions and their associated spaces.

The left side shows a direct sum of spaces \mathcal{H} associated with two regions:

- A region (annulus) with outer boundary M and inner boundary \bullet , labeled a .
- A region (disk) with boundary N and center \bullet , labeled \hat{a} .

The right side shows the space \mathcal{H} associated with a single region (annulus) with outer boundary M and inner boundary \bullet , labeled N .

The mapping is indicated by the symbol \cong (isomorphism) above the arrow.