

André Henriques.

$n$ -morphisms are denoted by geometric objects of codimension  $n$ .

Examples of graphical notation: (1) Circle: The vacuum Hilbert space. (2) Circle with a point marked with  $\lambda$ : The Hilbert space  $H_\lambda$ . (3) Circle with two points marked with  $\lambda$  and  $\mu$ : The Hilbert space  $H_\lambda \otimes H_\mu$ . (4) Cylinder with two braided strings connecting points labeled by  $\lambda$  and  $\mu$ : Full braiding. (5) Annulus: The fusion of two half-annuli (two discs).

Lemma: The cylinder is the direct sum over all irreducible representations  $\lambda$  of two disjoint discs with points labeled by  $\lambda$  and  $\bar{\lambda}$ .

[Lots of pictures follow.]