

The Aw category

March-29-11
8:56 AM

Problem. Give an elegant description of the category of A^w spaces and maps between them.

Motivating Example. \mathcal{B} is the category whose objects are $\{b_n : n \in \mathbb{N}\}$, with monoidal structure $b_n \otimes b_m := b_{n+m}$ and morphisms $\text{mor}(b_n, b_m) = \text{Hom}(F_m, F_n)$ where F_n is the free group on n letters.

A^w is a diagram for \mathcal{B} in Vect.