

II. FUSION RULES & RANK

EXAMPLES

A MONOIDAL CATEGORY
 $\mathcal{C} := (\mathcal{C}, \otimes, \mathbb{1}, a, l, r)$
IS FUSION IF:

- (a) \mathcal{C} IS ABELIAN
- (b) \mathcal{C} IS $(\mathbb{R}-)$ LINEAR
- (c) \mathcal{C} IS LOC. FINITE
- (d) $\mathbb{1}$ IS ABS. SIMPLE
- (e) \mathcal{C} IS RIGID
- (f) \mathcal{C} IS SEMISIMPLE
- (g) \mathcal{C} IS FINITE

↑
GOVERNED BY
SIMPLE OBJECTS

FdVec

~~Ab~~

G-FdMod

G FINITE GROUP

~~Vec~~

~~Set~~

FdVec_G