

$$\begin{array}{ccc}
 \vdots \overline{E(m)} \otimes \overline{E(m')} \otimes \overline{E(m'')} \vdots & \xrightarrow{E_{m,m'} \otimes 1} & E(m \otimes m') \otimes E(m'') \\
 \downarrow 1 \otimes E_{m',m''} & \wr & \downarrow E_{m \otimes m', m''} \\
 E(m) \otimes E(m' \otimes m'') & \xrightarrow{E_{m, m' \otimes m''}} & E(m \otimes m' \otimes m'')
 \end{array}$$

$E(m \otimes m') \otimes E(m'') \xrightarrow{E_{m \otimes m', m''}} E(m \otimes m' \otimes m'')$
 $E(m \otimes m') \otimes E(m'') \xrightarrow{E_{m \otimes m', m''}} E(m \otimes (m' \otimes m''))$

where

$$E_{m,m'}: E(m) \otimes E(m') \rightarrow E(m \otimes m')$$

$$E: {}_{\mathbb{L}}\mathcal{C}_{\text{sep}}(S\mathcal{F}) \rightarrow \mathcal{F}\mathcal{C}_{\text{sep}}$$

$$(a, \perp_a) \rightarrow (m, x) \leftarrow (b, \perp_b)$$

$a \rightarrow m \in b$

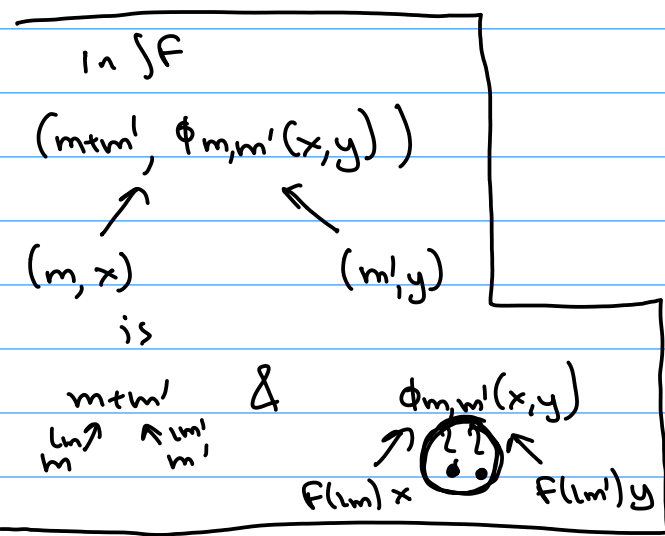
which, on decoration maps is

$$\begin{array}{ccc}
 1 \xrightarrow{x \times y} f(m) \times f(m') & \xrightarrow{\phi_{m,m'}} & f(m+m') \\
 f(l_m) \times f(l_{m'}) & \xrightarrow{\phi_{l_m, l_{m'}}} & f(l_{m+m'}) \\
 f(m+m') \times f(m+m') & \xrightarrow{\phi_{m+m', m+m'}} & f(m+m'+m+m')
 \end{array}$$

$x \in f(m)$

Really $\phi_{m,m'}(x,y) \xrightarrow{\phi_{m+m', m+m'}} f(l_m)x + f(l_{m'})y$ in $f(m+m')$

$\begin{array}{ccc} j_x \nearrow & & \nwarrow j_y \\ F(l_m)x & & F(l_{m'})y \end{array}$



$$\begin{array}{ccccc}
 & m+m'+m'' & & & \\
 \swarrow & \uparrow & \uparrow & \uparrow & \searrow \\
 m & m' & m'' & m' & m''
 \end{array}$$

$m+m'+m''$ in A

$$\begin{array}{ccc}
 \phi(\phi(x,x'),x'') & \xrightarrow{\cong} & \phi(x, \phi_{m',m''}(x',x'')) \\
 \downarrow j_x & & \downarrow j_x \\
 F(l_m)x + F(l_{m'})x' & & F(l_m)x + F(l_{m'})x' + F(l_{m''})x'' \\
 \uparrow k_x & \uparrow k_{x'} & \uparrow k_{x''} \\
 F(l_m)x & F(l_{m'})x' & F(l_{m''})x''
 \end{array}$$

$\phi(\phi(x,x'),x'') \xrightarrow{\omega} \phi(x, \phi_{m',m''}(x',x''))$
 $\downarrow \phi(1, \theta)$
 $\phi(x, F(l_{m'})x' + F(l_{m''})x'')$
 $\downarrow \theta$
 $F(l_m)x + F(l_{m'})x' + F(l_{m''})x''$