I should convince myself the 1-colour Euler approach is unsalvageable.

Can you tell a soup by its $E_0$ or $E_0^2$?

\[ E^M E^M = e^M E^M \]

Also

\[ E_1 E^M = e^M E_1 \]

\[ E^{-1}(e^{xc}) = \sum_{n=1}^{\infty} \frac{1}{n!} x^n = \int \frac{e^x}{x} \quad \text{a special function}. \]

"The arrows carry the degree from the objects."