

The fine-structure constant:

$$\alpha = \frac{1}{137.035\ 999\ 084(21)}$$

as reality has given us and it is fine tuned enough for life or we wouldn't be here, consistent with the anthropic principle.

$$\alpha = \frac{1}{137} \quad \text{exactly}$$

which is fine tuned enough for life, but **NOT OVERLY** fine tuned, provided the reality requires a random integer denominator.

$$\alpha = \frac{1}{144} \quad \text{exactly}$$

which fine tuned enough for life (probably), but **OVERLY** fine tuned, since why should the denominator be $144 = 12^2 = 2^4 \times 3^2$, unless we save eternal inflation from **FALSIFICATION** by having reality require the denominator be the product of a random number of random prime numbers.

DJ Jeffery, UNLV 2022