

Minimal Fine Structure Constant Equation

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A simple equation yielding a plausible fine structure constant is presented.

$$x^{e+e} = \pi^{x - \frac{\pi}{[xx+1]+1/[xx]}}$$

$$x > e$$

True if and only if

$$xx = 137.03599920466 \dots$$

As above, simplified with large integers given:

$$x^{2e} = \pi^{x - \frac{\pi}{139+1/137}}$$

$$x > e$$

True if and only if

$$x^2 = 137.03599920466 \dots$$

e = Euler's number = 2.718

π = Archimedes' constant 3.141

Plausible value, simple equation and relevant constants make this guess worth sharing.

