

About Fibonacci Tilings

Benevolent Tomato

Conjecture 1. *Consider a cube of dimension of 2-by-2-by-n. Let C_n The number of ways to perfectly tile this cube with 2-by-2-by-1 cubes. Assuming no rotational simialarity, the segeunce C_n is determined entirely by the following recurrence relation.*

$$C_1 = 2, C_2 = 9 \tag{0.1}$$

$$C_n = 2C_{n-1} + 5C_{n-2} \tag{0.2}$$