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7.349
3/2/5

DNA molecules that form structures with sticky ends can be used to form Wang tiles. Through self-assembly these tiles can combine into a periodic 2-D array. This array then can be the first line of a more complicated structure that is able to be used as a computational circuit. This type of computational structure can be used to emulate a Boolean Tree Like Circuit. This is accomplished by first having a fixed template and the first row of pawns to represent the boolean tests. These questions can be computed by adding the DNA structures that represent the Wang tiles. These DNA molecules will "glue" their sticky ends to the template via self-assembly, building a complicated structure that computes the answer to the Boolean Tree Like Circuit. This system can be used to compute a chain of boolean "and" tests. Error testing ~~can be done by pulling templates that have tile voids with tiles that~~ have universal sticky ends.

need aperiodic for computation.

truth values of expressions.

programmed

or NAND

clearer description of layers needed.
mention actual constructs in DNA.
Two layers → extend to 3D?

universality?