



John von
Neumann
(1903-1957)

Precursor of cellular
automata theory

Cellular Automata

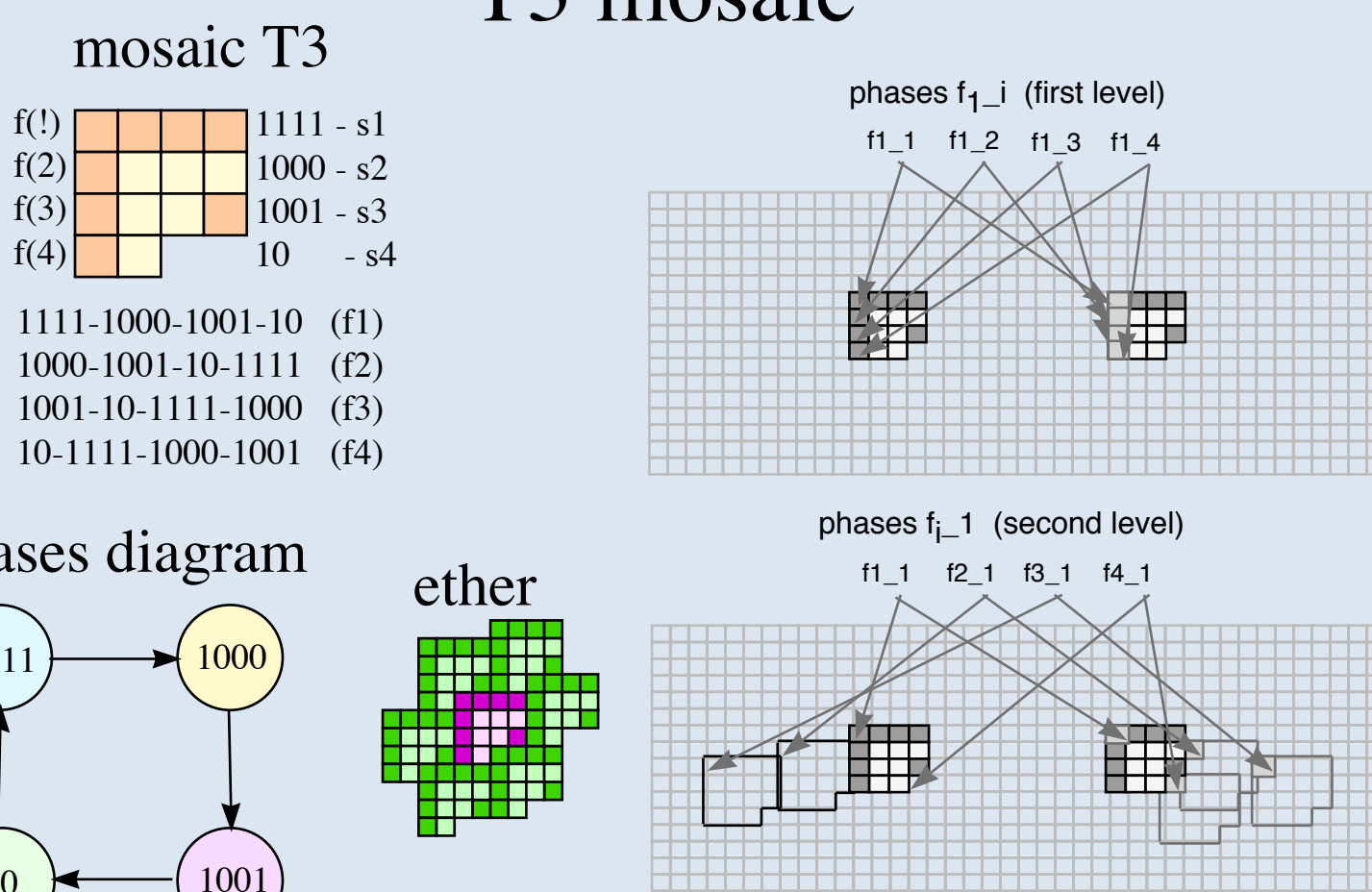
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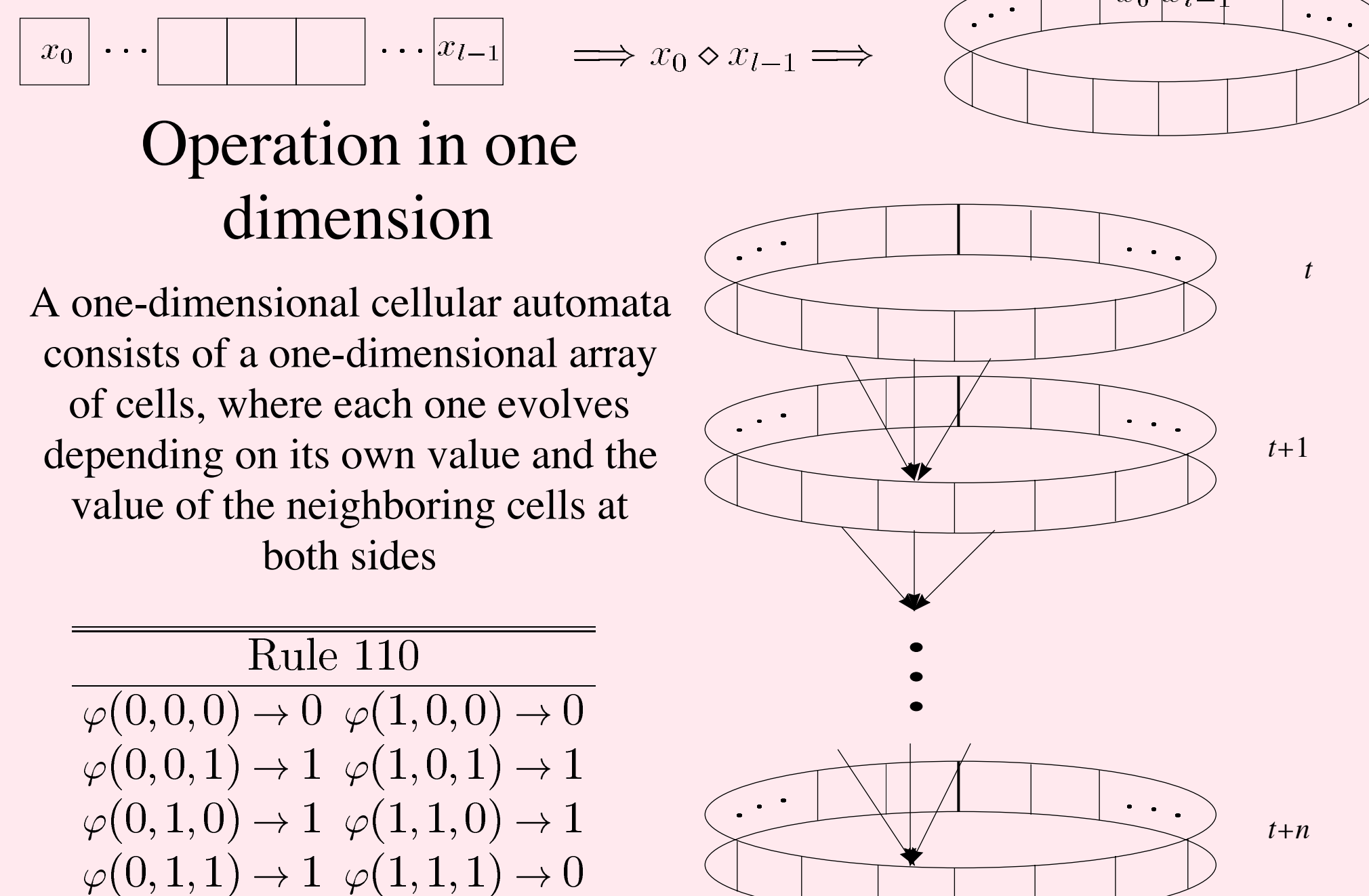
Production of gliders by collisions in Rule 110

Genaro Juárez Martínez, Harold V. McIntosh and Juan Carlos Seck Tuoh Mora

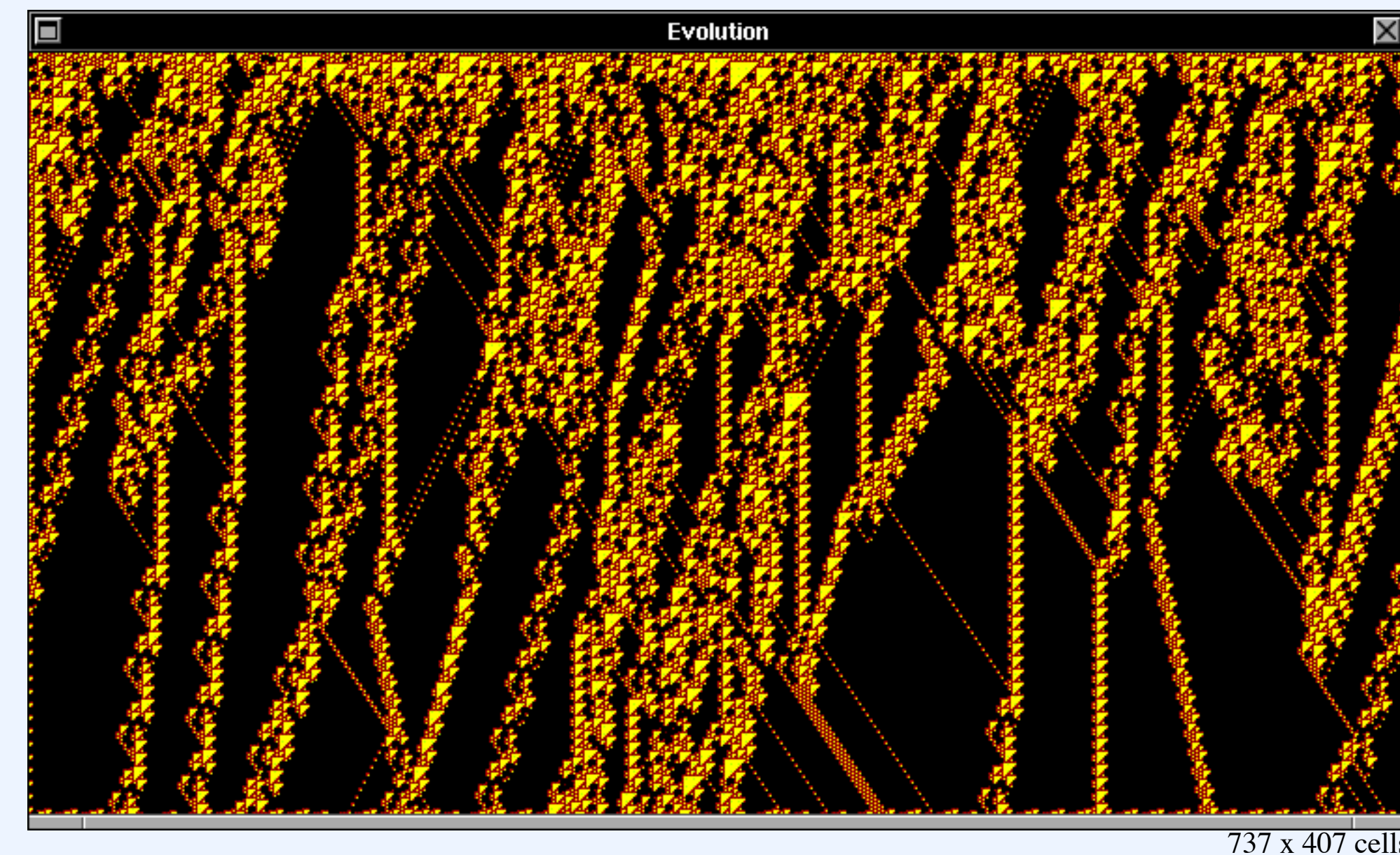
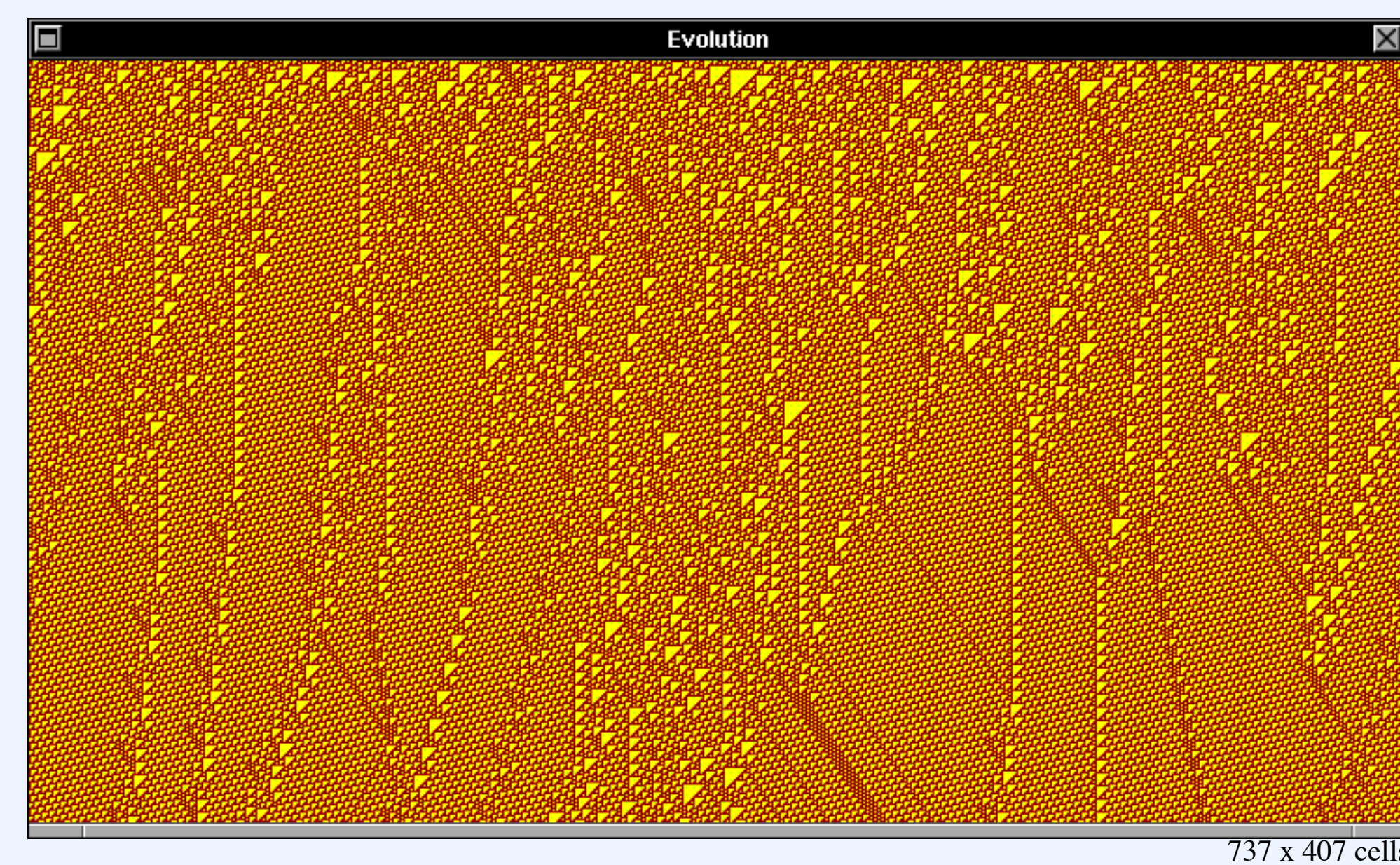
Phases in Rule 110 determined by
T3 mosaic



The codified expressions are as follows:
#₁(#₂,f_{i-1}), where #₁ represents a glider
according with Matthew Cook's classification and
#₂ is the phase of the glider



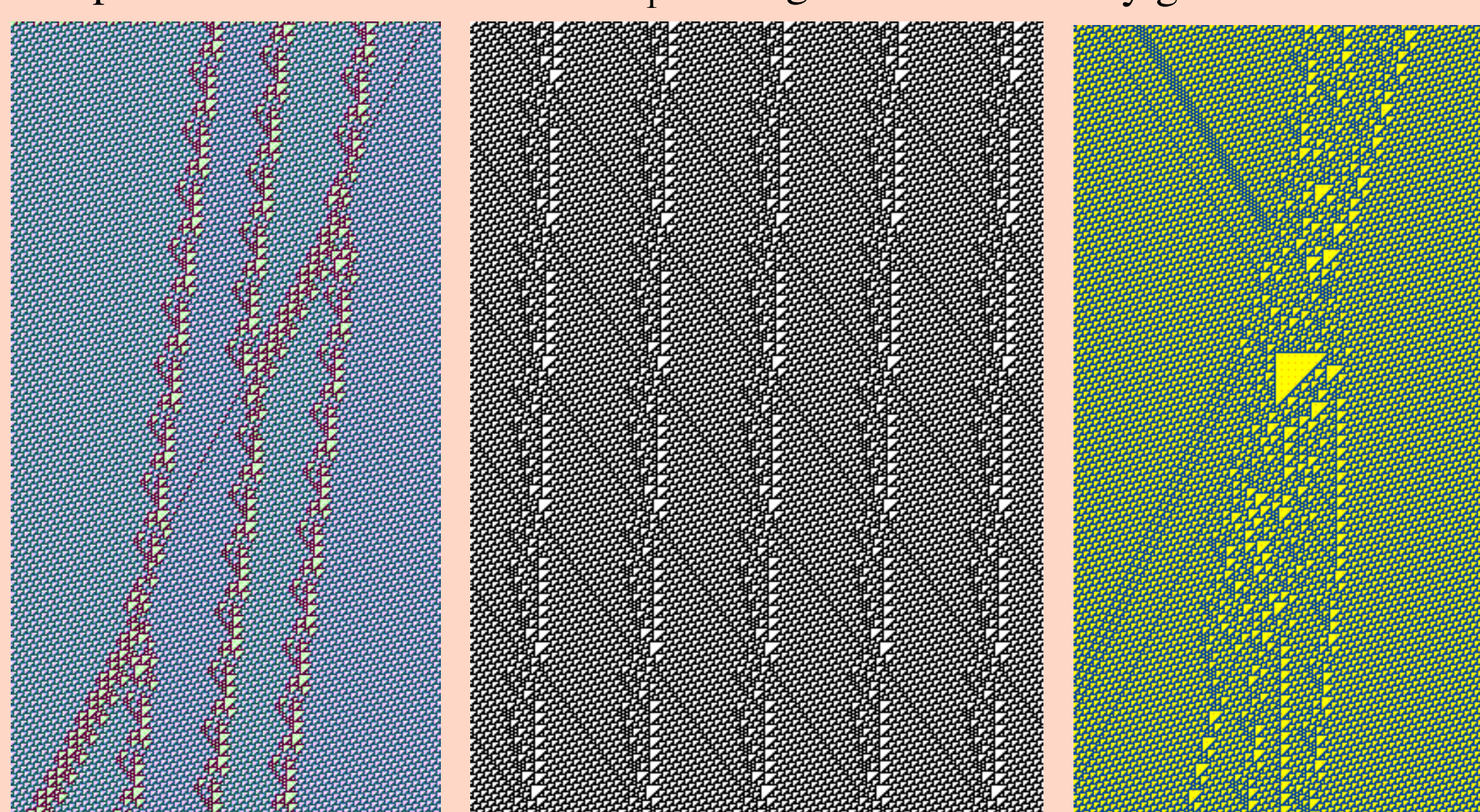
An example of the evolution space in Rule 110 with colored ether



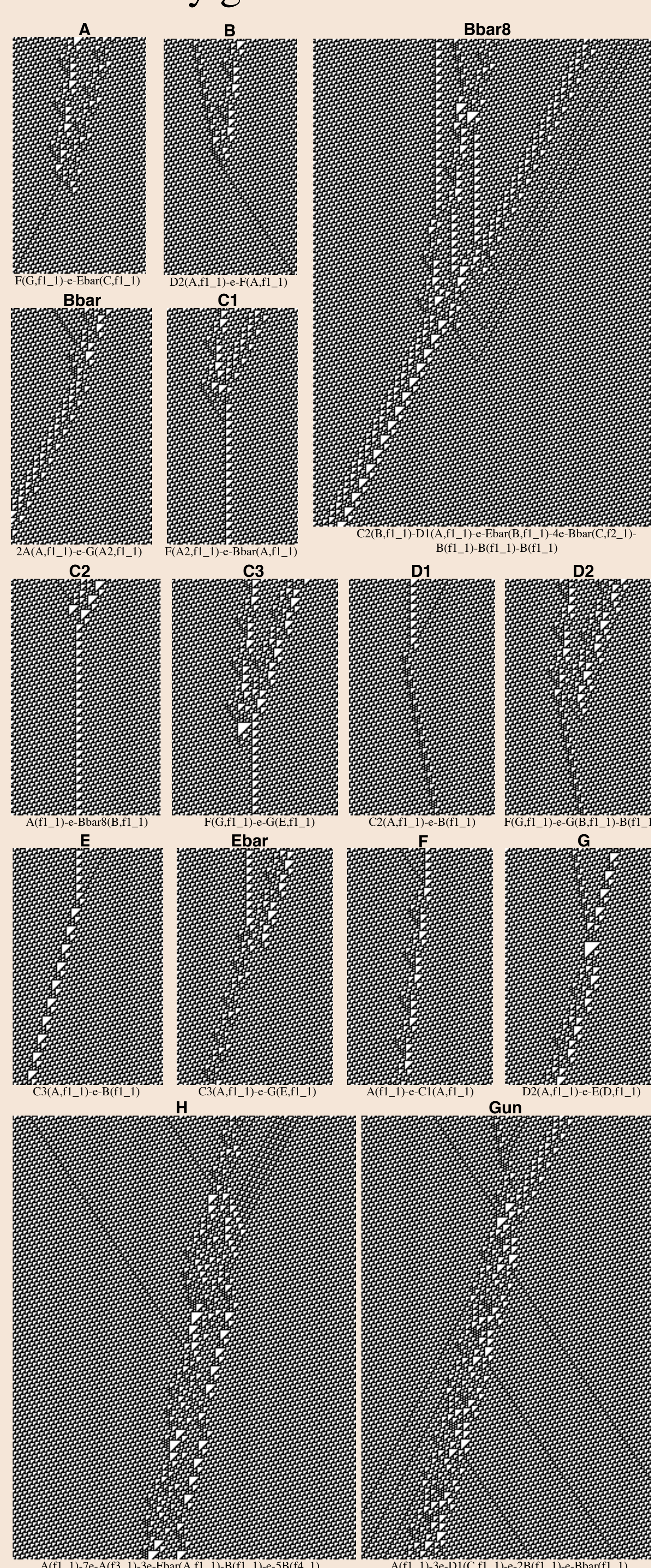
Solitons and
pseudo soliton

Meta glider formed by A,
D₁ and F gliders

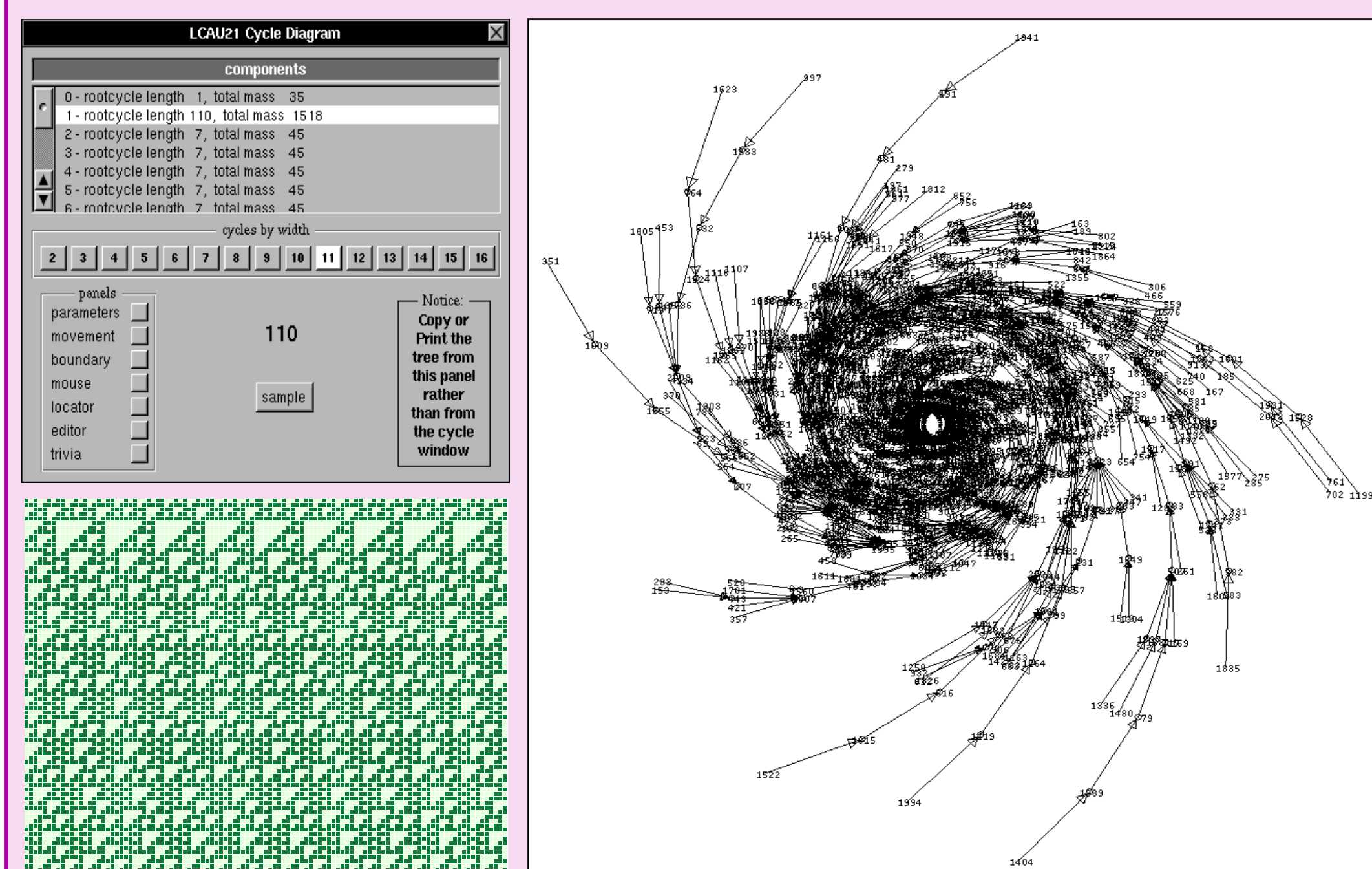
Reproducing a T30 mosaic
by glider collisions



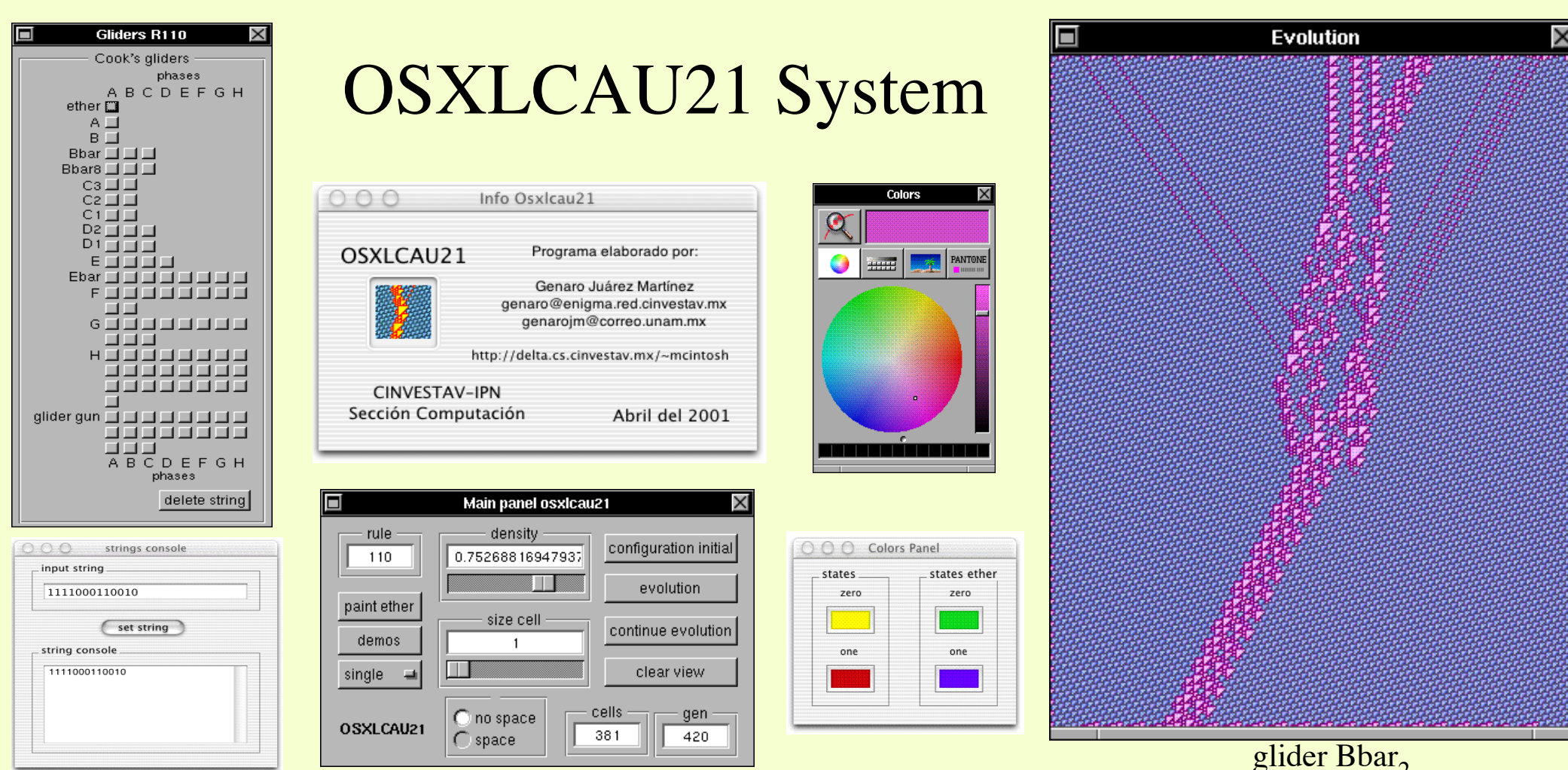
List of gliders described by
Matthew Cook in Rule 110 yielded
by glider collisions



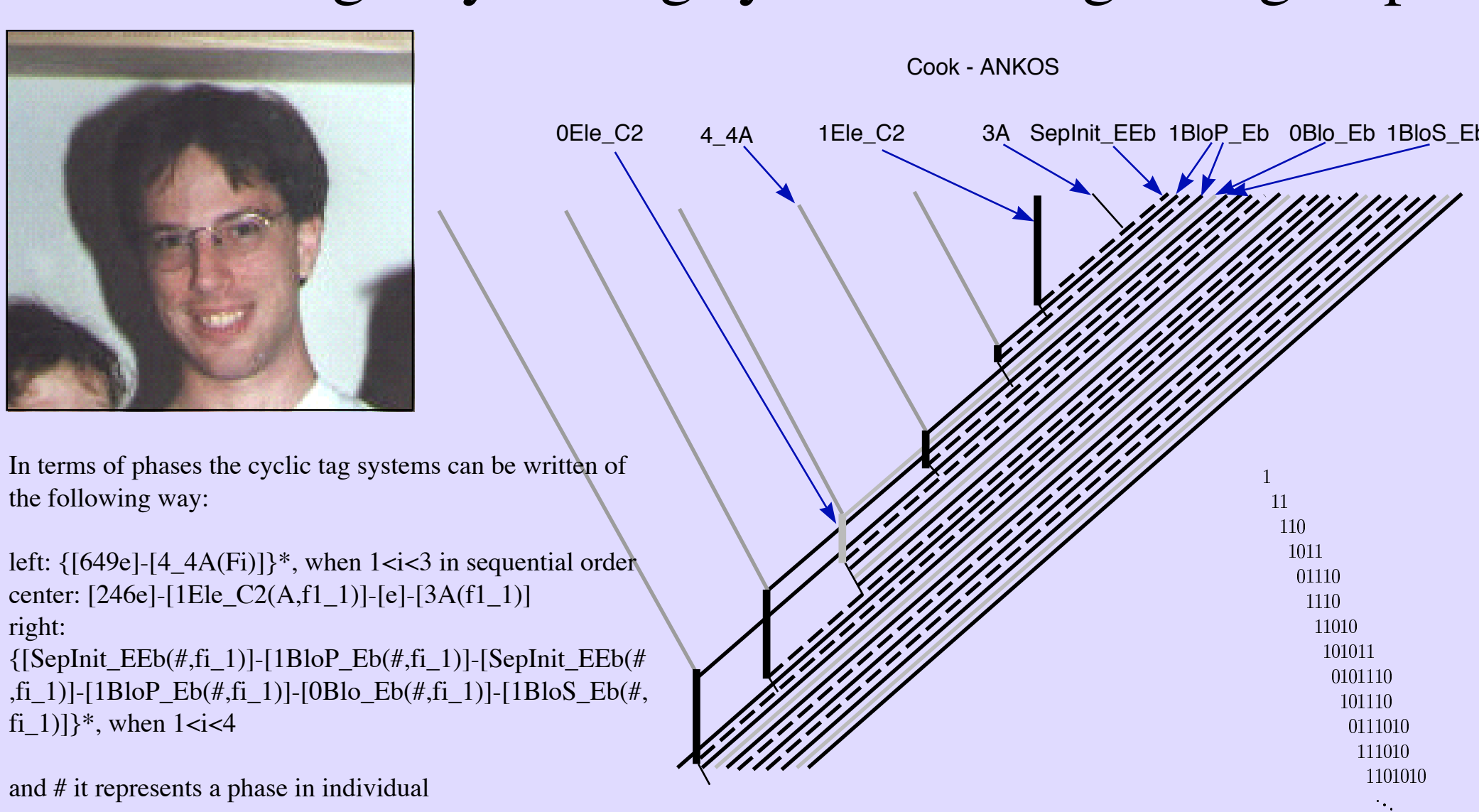
Cycle diagram representing a D₁ glider (NXLC AU21)



OSXLC AU21 System



Matthew Cook shows universality in Rule 110
simulating a cyclic tag systems with glider groups



De Bruijn diagram corresponding with C gliders (NXLC AU21)

