ON THE MECHANISMS MAINTAINING FRACTAL PATTERN REPRODUCTION

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A phase transition from trivial iterationstate to a fractal pattern generation has been studied for a cellular automaton reproducing zeros and unities on the one-dimension cellular field [1]. The fractal dimension is close to that of the Pascal triangle ($d = \ln 3/\ln 2 \approx 1.585$). This automaton presents a simple model describing a fractal fracture of brittle solid.

REFERENCES

1. *Sbitnev V.I.* On the mechanisms maintaining fractal pattern reproduction. Preprint PNPI–1923. Gatchina, 1993. 20 p.