

Undergraduate Summer Research Program in Mathematics

Summer 1988

Robert Robson and Paul Cull, Directors.

**Undergraduate Summer Research Program in Mathematics
Oregon State University**

Papers produced by participants in 1988.

TABLE OF CONTENTS:

Thomas Amoth:

Is Pi random? and related matters.

Rebecca Anderson and Jeremy Smith:

Expectation and Cycles of Fractional Dimension in Ulam's Cellular Automaton

Lans Burger:

Convexity and Topologies in Neural Nets. (abstract)

Colleen Greco and Bonnie Wedekind:

Discourse on Fibonacci mod p .

Mark Hull, Susan Loepp, and Matthew McGillis:

An exploration of cycle lengths of matrices.

Martine Klein:

Loss of Global Stability in an Exponential One-Dimensional Iteration.