

Length-8 Prime Chains under a 3-adic Collatz-like Map

Hiroshi Harada

February 22, 2026

A research note on prime-generating behavior in a 3-adic Collatz-like map

$f(x) = (4x \pm 1)/3$, with the sign determined by $p_i \bmod 3$

The following length-8 chain was identified:

46000363

61333817

81778423

109037897

145383863

193845151

258460201

344613601