## JEFF SHALLIT, University of Waterloo

Automata and nested recurrences

In this talk I will discuss an application of automata to the analysis of nested recurrences. In particular, I'll show that the frequency sequence F(n) of the Balamohan-Kuznetsov-Tanny sequence V(n) defined by V(n)=1 for  $n\leq 4$  and V(n)=V(n-V(n-1))+V(n-V(n-4)) otherwise, is 2-automatic.