RATS SEQUENCES IN GENERAL BASES

Mathematics & Computer Science Seminar Series

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Conway's RATS sequences are generated by repeating the following process: begin with a positive integer, reverse the order of the digits, add the original integer to its reverse, then sort the sum's digits in increasing order from left to right. We consider this process for integers written in other bases besides 10 and discuss the long-term behavior of such sequences. In particular, we will examine the existence of periodic and quasiperiodic (a special type of divergence) sequences for certain bases.

Friday, September 8th @ 1:30 pm
Science Room 321