

Russell Jay Hendel

*Quasi-Periods for the Hofstadter Q Function,*  
Fibonacci Quart. **53** (2015), no. 2, 112–123.

**Abstract**

The purpose of this paper is to answer, in the negative, an open question of Ruskey on whether all solutions of Hofstadter's  $Q$  function have quasi-period 3. We solve this problem by presenting for each positive integer  $e$  initial conditions for the  $Q$  function such that the resulting sequence satisfying the recursion and initial conditions has quasi-period  $e$ .