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CEP:05508-090, São Paulo, Brazil, and **Eduardo Colli** and **Marcio Lima do Nascimento**.

*Decay of geometry for Fibonacci critical coverings of the circle.*

In a joint work with E. Colli and M. L. do Nascimento we study the growth of  $Df^n(f(c))$  when  $f$  is a Fibonacci critical covering map of the circle with negative Schwarzian derivative, degree  $d \geq 2$  and critical point  $c$  of order  $\ell > 1$ . As an application we prove that  $f$  exhibits exponential decay of geometry if and only if  $\ell \leq 2$ , and in this case it has an absolutely continuous invariant measure, although not satisfying the so-called Collet-Eckmann condition. (Received January 29, 2008)