The asymptotic value of the Mahler measure of the Rudin-Shapiro polynomials.

In this talk we show that the Mahler measure of the Rudin-Shapiro polynomials of degree $n - 1$ with $n = 2^k$ is asymptotically $(2n/e)^{1/2}$, as it was conjectured by B. Saffari in 1985. Our approach is based heavily on the Saffari and Montgomery conjectures proved recently by B. Rodgers. (Received September 22, 2017)