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Steve Gonek* (gonek@math.rochester.edu), Department of Mathematics, University of Rochester, Rochester, NY 14627. *Finite Euler product approximations of the Riemann zeta-function.*

If one could construct a model of the Riemann zeta-function that incorporates its basic properties but has a more transparent structure, this could lend insight into the zeta-function's behavior. I will describe the construction of a family of functions out of finite Euler products and any zeros the zeta-function might have to the right of the critical line. I will then discuss how well these functions approximate the zeta-function both on the Riemann Hypothesis and unconditionally. (Received December 03, 2012)