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MR1939405 (2003g:11093)**[Balanzario, Eugenio P.](#)****On Dirichlet polynomial approximations to the Riemann zeta function.***XXXII National Congress of the Mexican Mathematical Society (Spanish) (Guadalajara, 1999), 3–8, Aportaciones Mat. Comun., 27, Soc. Mat. Mexicana, México, 2000.*[11M06 \(11M41\)](#)

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Positive trigonometric polynomials closely approximating Dirac's delta function are first given, followed by a construction of convolutions of Fejér's polynomials that estimate the Riemann zeta function with high accuracy. Earlier related work was done by E. Bombieri and J. B. Friedlander [Ann. Scuola Norm. Sup. Pisa Cl. Sci. (4) **22** (1995), no. 3, 517–544; [MR1360548 \(97a:11131\)](#)] and Bombieri analytic complexity of zeta functions [in *Analytic number theory* (Kyoto, 1996), 21–30, Cambridge Univ. Press, Cambridge, 1997; [MR1694982 \(2000d:11105\)](#)].

{For the entire collection see [MR1939404 \(2003e:00029\)](#)}

Reviewed by [Filip Saidak](#)

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