



**THE SPECIAL FUNCTIONS AND THE
RIEMANN HYPOTHESIS**

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Abstract

By studying the ζ function whose integer zeros are the prime numbers, and being inspired by the article [M. Sghiar, The Mertens function and the proof of the Riemann's hypothesis, International Journal of Engineering and Advanced Technology (IJEAT), 7(2) (2017)], I give a new proof of the Riemann hypothesis.

Keywords and phrases: prime number, number theory, distribution of prime numbers, the law of prime numbers, the Riemann hypothesis, the Riemann zeta function, the Mertens function, the Gamma function.

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