

**VALUES OF THE RIEMANN ZETA FUNCTION  
ON VERTICAL ARITHMETIC PROGRESSIONS  
IN THE CRITICAL STRIP**

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ABSTRACT: Putnam in 1954 showed that any sequence of consecutive zeros of the Riemann zeta function on the critical line does not form an arithmetic progression. In a book published in 2013, Lapidus and Frankenhuijsen gave a new proof of Putnam's result and extended it to a large class of zeta functions and  $L$ -series. Recently, under a joint work with Dr. Junghun Lee, Athanasios Sourmelidis, and Prof. Jörn Steuding, we can extend this result of Putnam, Lapidus and Frankenhuijsen for not only zeros, but also sets values of the Riemann zeta function in the critical strip.