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**YOUNESS LAMZOURI**, York University  
*A-points of the Riemann Zeta function*

The complex roots,  $s = \sigma + it$ , to the equation  $\zeta(s) = a$ , where  $a$  is non-zero complex number, are known as  $a$ -points of the Riemann zeta function. In this talk, I will present joint work with Steve Lester and Maksym Radziwill in which we obtain the first effective error term for the number of  $a$ -points in a strip  $1/2 < \sigma_1 < \sigma < \sigma_2 < 1$ . Previously only an asymptotic estimate was available due to a result of Bohr and Jessen from 1932.