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Amita Malik* (amita.malik@rutgers.edu). *Zeros of derivatives of the completed Riemann zeta function.*

Riemann Hypothesis implies the Riemann Hypothesis for higher order derivatives of the completed Riemann zeta function. The gap distribution of the zeros of these derivatives would provide insight into the existential question of the Landau-Siegel zero. In this talk, we discuss the vertical distribution of these zeros and establish their uniform distribution modulo one. Moreover, we prove that 100% of the zeros of combinations of these derivatives lie on the critical line even though there is no Euler product in this case. (Received March 03, 2020)