

## **abstract**

SHORT TALKS BY POSTDOCTORAL MEMBERS

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

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In this talk, we present some new results on the joint distribution function of the argument and the norm of the Riemann zeta function on the 1-line (the edge of the critical strip). Our strategy is to introduce a probabilistic random model for these values. One consequence of our work is the fact that almost all values of  $\zeta(1+it)$  with large norm are concentrated near the positive real axis. We also show that the arguments (when suitably normalized) of large values of  $\zeta(1+it)$  are normally distributed with mean 0. Similar results are also given for the family  $L(1,\chi)$  (as  $\chi$  varies over non-principal characters modulo a large prime).