

Dirichlet polynomials, some old and recent results

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In the first part of the talk, we present and discuss the interplay of Dirichlet polynomials in some classical problems of number theory, notably the Lindelöf Hypothesis. We review some typical properties of their means and continue with some investigations concerning their supremum properties. Their random counterpart is next considered in the second part of the talk. An analysis of their supremum properties, which is entirely based on methods of stochastic processes, is presented.