Mean Values and Value Distribution of $(L'/L)(1 + it, \pi)$

**Abstract:** For \( \pi \), a cuspidal automorphic representation of \( GL_m(\mathbb{A}_\mathbb{Q}) \), there is an associated \( L \)-function, \( L(s, \pi) \). We study the value distribution of its logarithmic derivative on the 1-line, \( (L'/L)(1 + it, \pi) \). We are able to prove that for \( t \in [T, 2T] \), in some sense, \( (L'/L)(1 + it, \pi) \) has an “almost” normal distribution with mean 0 and variance \( \sqrt{\log(y(T))}/y(T) \). An essential ingredient of the proof is the fact that our function of interest can be approximated by a Dirichlet polynomial with coefficients supported on prime powers.