BOUNDS FOR MODULAR L-FUNCTIONS IN THE LEVEL ASPECT

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ABSTRACT. Let u be a primitive (holomorphic or Maass) cusp form of level q and any nontrivial nebentypus. Then for $\Re s = \frac{1}{2}$ the associated L-function satisfies $L(u,s) \ll q^{\frac{1}{4}-\frac{1}{1889}}$, where the implied constant depends polynomially on s and the archimedean parameters of u (weight or Laplacian eigenvalue).

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