

Zero density for automorphic L-functions

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Let f be a Hecke Maass eigenform for $SL(3, \mathbb{Z})$ and $L(s, f)$ its L-function. Using a classical zero detecting method and a recent subconvexity bound for $L(s, f)$, we will prove a zero-density estimate for $L(s, f)$ on a short vertical strip of $T < \text{Im } s < T + T^a$ and $b < \text{Re } s < 1$, where $3/8 < a < 1/2$ and $1/2 < b < 1$.