

The subconvexity bounds for *L*-functions

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Abstract

For a general *L*-function, the bound on its critical line obtained by applying the Phragmen-Lindeloff interpolation method is called the convexity bound. Any bounds with a power saving of the convexity bound are called subconvexity bounds. In this talk we will give the first subconvexity bounds for $GL(3)$ *L*-functions as well as for $GL(3) \times GL(2)$ *L*-functions. Our methods also recover the subconvexity bounds for $GL(2)$ *L*-functions in the eigenvalue aspect .