

Non-vanishing of the value of L -functions attached to primitive forms on the critical line

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Abstract

We are interested in the behavior of the first moment of the value of L -functions attached to primitive forms at the point on the critical line. In this talk, I will show an asymptotic formula for it, if the weight is an even integer which is strictly smaller than 12 and the level is a power of a prime number. This formula yields a lower bound of the number of primitive forms which L -functions are not vanish at the point on the critical line.