On the distribution of the values of certain Cotangent Sums

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The talk is based on the joint work with M.Rassias, ETH – Zürich

Session: 1. Analytic Number Theory

Let E be the Estermann Zeta - function. The values of $E(0, r/b, 0)$ for rational arguments r/b are related to certain cotangent sums appearing in recent work of S. Bettin and J.B. Conrey. We investigate the distribution of these cotangent sums for large b as r ranges over values coprime to b in a certain interval.