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On the hybrid mean value of Cochrane sums and two-term exponential sums. (English)

Zbl 1289.11039

Math. Rep., Bucur. 14(64), No. 4, 355-362 (2012).

Summary: In this paper, we use the elementary and analytic methods to study the mean value properties of the Cochrane sums weighted by two-term exponential sums, and give two exact computational formulae for them.

MSC:

11F20 Dedekind eta function, Dedekind sums

11L03 Trigonometric and exponential sums, general

Keywords:

Cochrane sums; two-term exponential sums; hybrid mean value; computational formula