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Cubature formulas of high trigonometric accuracy. (Russian, English) [Zbl 1079.41028](#)

Zh. Vychisl. Mat. Mat. Fiz. 44, No. 5, 786-795 (2004); translation in *Comput. Math. Math. Phys.* 44, No. 5, 740-749 (2004).

The basic results on cubature formulas, exact on trigonometric multinomials, are investigated. The basic attention is given to the formulas integrating exactly all trigonometric polynomials which degree does not exceed the set number and containing thus probably a smaller number of nodes.

Reviewer: [Elena Glukhova \(Moskva\)](#)

MSC:

[41A55](#) Approximate quadratures

[65T40](#) Numerical methods for trigonometric approximation and interpolation

Cited in 4 Documents

Keywords:

cubature formulas; trigonometric multinomials; high trigonometric accuracy