# Gauss Quadrature Rules for the Evaluation of 

$2 \pi^{-1 / 2} \int_{0}^{\infty} \exp \left(-x^{2}\right) f(x) d x$

## By David Galant

Abstract. Gauss quadrature rules for evaluating integrals of the form

$$
2 \pi^{-1 / 2}-\int_{0}^{\infty} \exp \left(-x^{2}\right) f(x) d x
$$

have been calculated to 20 S for one to twenty nodes. The coefficients for the threeterm recurrence relation of the first twenty orthogonal polynomials associated with the weight function $\exp \left(-x^{2}\right)$ on the interval $[0, \infty)$ are also tabulated to $20 S$.

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Second Editorial Remark (Added in proof). As the journal went to press, another article was received on this subject. We reprint the abstract of this article above and reproduce the extensive tables in the microfiche section of this issue. A review of the tables appears in the review section of this issue, RMT 42, p. 676.

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