where

(10)
$$\begin{cases} M_2 = -\mu_2'/\sqrt{(\sigma_2')^2 + 1} \\ M_3 = -\mu_3'/\sqrt{(\sigma_3')^2 + 1} \\ \frac{1}{r} = \sqrt{(\sigma_3')^2 + 1} \sqrt{(\sigma_2')^2 + 1} . \end{cases}$$

Equation (10) gives the volume under the bivariate normal probability surface with correlation coefficient r. These volumes are tabulated in [1].

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1. NBS Applied Mathematics Series, No. 50, Tables of the Bivariate Normal Distribution Function and Related Functions, U. S. Government Printing Office, Washington, D. C. 1959.

The Congruence $2^{p-1} \equiv 1 \pmod{p^2}$ for p < 100,000

By Sidney Kravitz

Fröberg has previously announced [1] the computation of the Fermat remainders corresponding to all odd primes less than 50,000. His results show that p = 1093 and p = 3511 are the only solutions of the congruence $2^{p-1} \equiv 1 \pmod{p^2}$ in that range.

The residues of $2^{p-1} \pmod{p^2}$ have been computed for 50,000 on an IBM 650 system at Picatinny Arsenal. No residue congruent to 1 was found corresponding to a prime in this range.

A copy of the table of residues has been deposited in the Unpublished Mathematical Tables file.

Picatinny Arsenal Dover, New Jersey

1. C. E. FRÖBERG, "Some Computations of Wilson and Fermat Remainders," MTAC, v. 12, 1958, p. 281.

Editorial Note: Reference should also be made to:

1. W. MEISSNER, "Uber die Teilbarkeit von $2^p - 2$ durch das Quadrat der Primzahl p = 1093," Akad. d. Wiss, Berlin, *Sitzungsb.*, v. 35, 1913, p. 663-667 2. N. G. W. H. BEEGER, "On a new case of the congruence $2^{p-1} \equiv 1 \pmod{p^2}$," Messenger

2. N. G. W. H. BEEGER, "On a new case of the congruence $2^{p-1} \equiv 1 \pmod{p^2}$," Messenger Math., v. 51, 1922, p. 149-150.

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