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IN REPLY REFER TO:
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184:JWW:ahc
24 APR 1974

Dr. N.J.A. Sloane
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Dear Neil,

I appreciate your sending me a copy of your letter of 17 April to Professor Murnaghan regarding his paper on the coefficients of the asymptotic series for Airey's converging factor.

Murnaghan and I first checked and extended Airey's original table in our DTMB Report 1535, of January 1963, which was entitled "The Converging factor for the Exponential Integral." Then Murnaghan, in an impressive longhand calculation, found the values of the first 67 coefficients and published them in DTMB Report 1861, entitled "Evaluation of the Probability Integral to High Precision," and dated July 1965.

He doubtless refers to these reports in his paper, but I must confess that, paradoxically, I have not seen the paper nor received a reprint of it.

It is indeed interesting to learn that Wynn encountered these coefficients in calculating Weber parabolic cylinder functions. Neither Murnaghan nor I have been aware of Wynn's paper that you cited.

You are certainly now in an excellent position to extend your sequence 2098 in your next supplement!

Cordially,

JOHN W. WRENCH, JR.