Math 1931 − 2000:

745.30004
Koepf, Wolfram
On two conjectures of M. S. Robertson. (English)
Complex Variables, Theory Appl. 16, No.2/3, 127-130 (1991). [ISSN 0278-1077]

It has been conjectured by *M. S. Robertson* [Univalent functions, fractional calculus, and their applications, 245-266 (1989; Zbl. 691.30016)] that all coefficients in the power series expansion $\sum_{n\geq 0} b_n z^n$ of $((e^z - 1)/z)^{1/2}$ are ≥ 0. By means of computer algebra systems, the author disproves the conjecture. The calculations show that b_{13} is the first negative coefficient.

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Keywords : formal computation; negative coefficients; power series expansion

Citations : Zbl.691.30016

Classification:

- 30B10 Power series (one complex variable)
- 30C80 Maximum principle, etc. (one complex variable)
- 68Q40 Symbolic computation, algebraic computation