Comments on the Šesták–Berggren equation

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Concerning the discussion about the originality of Šesták–Berggren (SB) equation [1–3], I do not doubt the importance of Šesták–Berggren equation [4]. The equation

$$\frac{dx}{dt} \sim \alpha^n (1 - \alpha)^m \quad (1)$$

is a particular case of the equation

$$\frac{dx}{dt} \sim \alpha^n (1 - \alpha)^m [\log(1 - \alpha)]^p \quad (2)$$

for $p = 0$ [5, 6]. By fixing the parameter $p = 0$, one gains the easiness to describe experimental data. The second advance is that one can easily interpret the physical meaning of parameters m and n [7]. On the other hand, all this is on expense of accuracy with which the data can be fitted. Of course, when p is adjustable parameter, the data are described with a better precision.

Šesták and Berggren [5] may not be the unique inventors [7] who proposed Eqs. (1) and (2), but they [5] were the first to made them available to a wide audience [8] so I do not see any reason to expunge the so far respected SB-label out of the established citation practice.

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