## Erratum: Diffusion-limited reaction for the one-dimensional trap system [Phys. Rev. E 67, 056123 (2003)]

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The following errata result from mistakenly interchanging the identities of the imperfect and ideal trap coefficients *A* and *B*. This mistake, although not a minor one, does not affect the validity of all the equations and figures in this paper.

(1) On p. 1, column 1, eighth line from the bottom, before the text "We show that...," the following new sentence should be added: "We discuss now this transmission amplitude by considering the ratio of the ideal trap coefficient of the density of the passing particles at the last trap to its value at the first one."

(2) On p. 3, column 2, line 14 of Sec. III, replace "We want here to find if..." with "We now discuss, as noted, the ideal trap component of the transmission coefficient and find that..."

(3) In line 1 of p. 4, replace the word "imperfect" with the word "ideal."

(4) In line 2 of p. 4, replace the word "ideal" with the word "imperfect."

(5) On p. 4, column 1, replace ", as done in Ref. [8] --- was equated to zero." with "for the ratio of the imperfect trap coefficient of the last trap to the ideal one of the first, an assumption analogous to that in Ref. [8]. That is, when discussing the  $4n \times 4n$  matrix method after Eq. (29) in Ref. [8], we assume that the larger the number of imperfect traps, the smaller the ideal transmission coefficient at the last trap compared to the imperfect one at the first trap. We made here a similar assumption for the ratio of the imperfect trap coefficient at the last trap to the ideal one at the first. That is, the imperfect component of the density that remains after passing all the traps must be small compared to the ideal component of the density before approaching them."

(6) On p. 5, column 1, line 6 of Sec. IV, replace "(see [8]), the ratio of the value of the imperfect" with "the ratio of the value of the ideal."