ERRATUM TO "IMPROBABILITY OF COLLISIONS IN
NEWTONIAN GRAVITATIONAL SYSTEMS"

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In §3 of [1] the second line of the proof should read "... collision point is in an
arbitrary but fixed unit cube in the three dimensional subspace \( r_1 = r_2 = \ldots = r_k \)."
The exponent for the \( 2^{-a} \) term of (1) should be \( 0.9k - 2 \) and it should be \( 0.9k - 3 \)
for (2). The remainder of the analysis holds for \( k \geq 4 \).

The cases \( k = 2, 3 \) follow with the same basic ideas used in [1], however sharper
estimates are needed on the velocities. These details will appear at a later date.

The corollary should read: In the inverse \( p \) force law, \( p > 1 \), the set of initial
conditions leading to a \( k \)-fold collision has measure zero if \( 9k > 7 + p(3k + 1) \).

REFERENCE

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