

Erratum: Bose-Einstein Condensation in Trapped Dipolar Gases [Phys. Rev. Lett. 85, 1791 (2000)]

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(Published 19 March 2002)

DOI: 10.1103/PhysRevLett.88.139904

PACS numbers: 03.75.Fi, 05.30.Jp, 99.10.+g

Our Letter contains an incomplete discussion of the aspect ratio of the condensate cloud at the critical point. Equation (3) is a very good approximation only for cigar-shaped traps where the aspect ratio $l > 1$. This equation is incorrect for soft pancake traps ($l < 1$) and, in particular, for $l \rightarrow l_*$ where the critical number of particles is tending to infinity. The exact expression is very lengthy and will be published elsewhere. The obtained critical number $l_* \approx 0.4$ is correct and the results of the Letter remain valid, except for the dependence of the critical aspect ratio L_c of the cloud on l at $l < 1$ (inset in Fig. 1 of our Letter). The corrected curve for $L_c(l)$ is presented in Fig. 1 below. For $l \rightarrow l_*$ we obtain $L_c \rightarrow l_*$. Thus the collapse can occur even in soft pancake dipolar condensates ($L_c < 1$) where the mean dipole-dipole interaction V is repulsive. This phenomenon originates from the behavior of the lowest quadrupole and monopole excitations, and it will be analyzed in detail elsewhere.

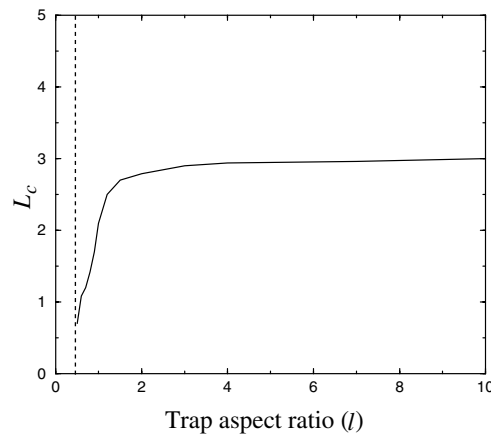


FIG. 1. Condensate aspect ratio at the criticality, L_c , versus l .