CORRECTIONS

Christian Seidel: Strongly Stretched Polyelectrolyte Brushes. Volume 36, Number 7, April 8, 2003, pp 2536−2543.

Because of a numerical error, unfortunately the simulations were effectively carried out at Bjerrum lengths different from those given in the paper. In fact strongly stretched brushes were simulated not at $\lambda_B = 0.1\sigma$ but instead at $\lambda_B \approx 2\sigma$. In addition to that, the numerical error causes a weak dependence of the real Bjerrum length on grafting density that has some influence on the exact value of stretching in the strongly elongated regime at small anchoring densities. Figure 1 and Figure 4 should have appeared as shown here. Maximum stretching occurs at $\lambda_B \approx b$. Although at intermediate coupling strength the slope of $log(\langle z_m \rangle)$ vs $\log(\rho_a)$ is reduced from 0.2 to 0.12, the slight brush height variation upon lateral compression, meanwhile also detected in experiments, is still in agreement with the theoretical predictions of the nonlinear osmotic brush regime.[1]

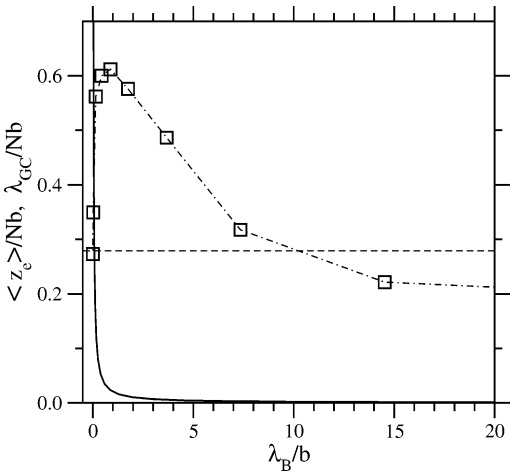

Figure 1. Average height of chain ends $\langle z_e \rangle$ (squares) and Gouy−Chapman length λ_{GC} (solid line), both rescaled with the contour length Nb (N = 20), vs Bjerrum length λ_B at grafting density $\rho_a\sigma^2 = 0.02$. The dashed line indicates $\langle z_e \rangle$ of an identical system of uncharged chains.

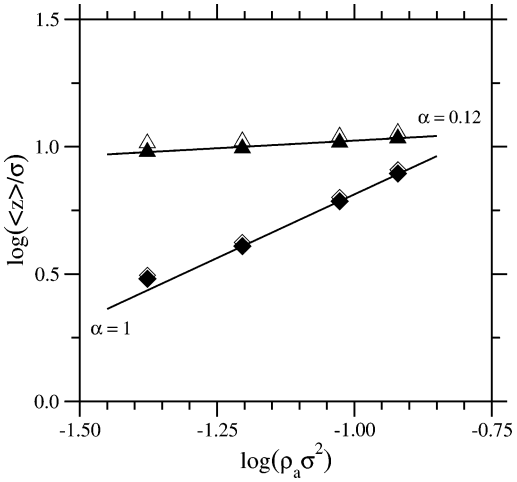

Figure 4. Average brush height $\langle z_m \rangle$ (filled symbols) and average counterion height $\langle z_{ci} \rangle$ (empty symbols) of completely charged polyelectrolyte brushes vs anchoring density both for $\lambda_B = \sigma$ (triangles, new results) and $\lambda_B \approx 14\sigma$ (diamonds). Error bars are smaller than symbol size.

Acknowledgment. I thank Arun Kumar for his support in checking the simulation code and performing control simulations.

References and Notes

(1) Ahrens, H.; Förster, S.; Helm, C. A.; Kumar, N. A.; Naji, A.; Netz, R. R.; Seidel, C. *J. Phys. Chem. B* **2004**, *108*, 16870.

MA0501500

10.1021/ma0501500
Published on Web 02/05/2005