Erratum

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ERRATUM

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Scaling theory of polymer adsorption

· It has been pointed out to us by S. Alexander that the discussion of section 2.2 is wrong. What is computed in eq. (2.10) is the *energy* per chain. To derive from it a chemical potential, we must apply the operator $\frac{\partial}{\partial \gamma}(\gamma \cdot)$. This does not change the scaling structure, but it changes the sign and gives a *repulsive* μ . We conclude that the assumption of 3 dimensional adsorption leads to an unstable phase, which will spontaneously decrease its coverage and return to the semi dilute regime of section 2.3. Thus our final formulas for the *plateau* are eqs. (2.24-25) (at $l/K < 1$) and the upper limit for coverage is $\gamma_c \sim \delta^{1/2}$.