

Б.Б.Дамаскин

Отчет за 2010 год

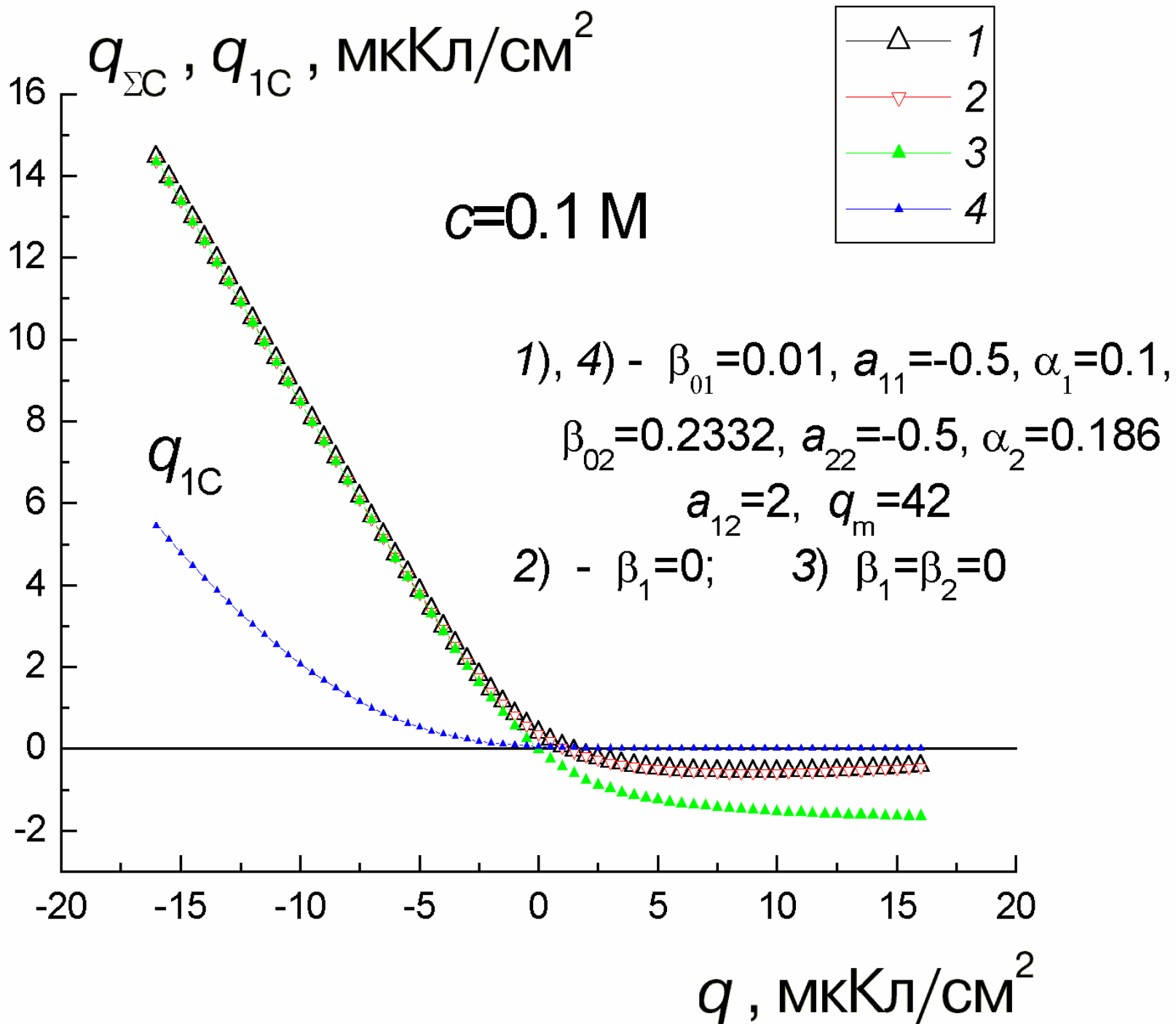
$$\beta_1 c_1^{\text{OHP}} = \frac{\theta_1}{n_1 (1 - \theta_1)^{n_1}} \exp(-2n_1 a_{11} \theta_1 - 2n_1 a_{12} \theta_2)$$

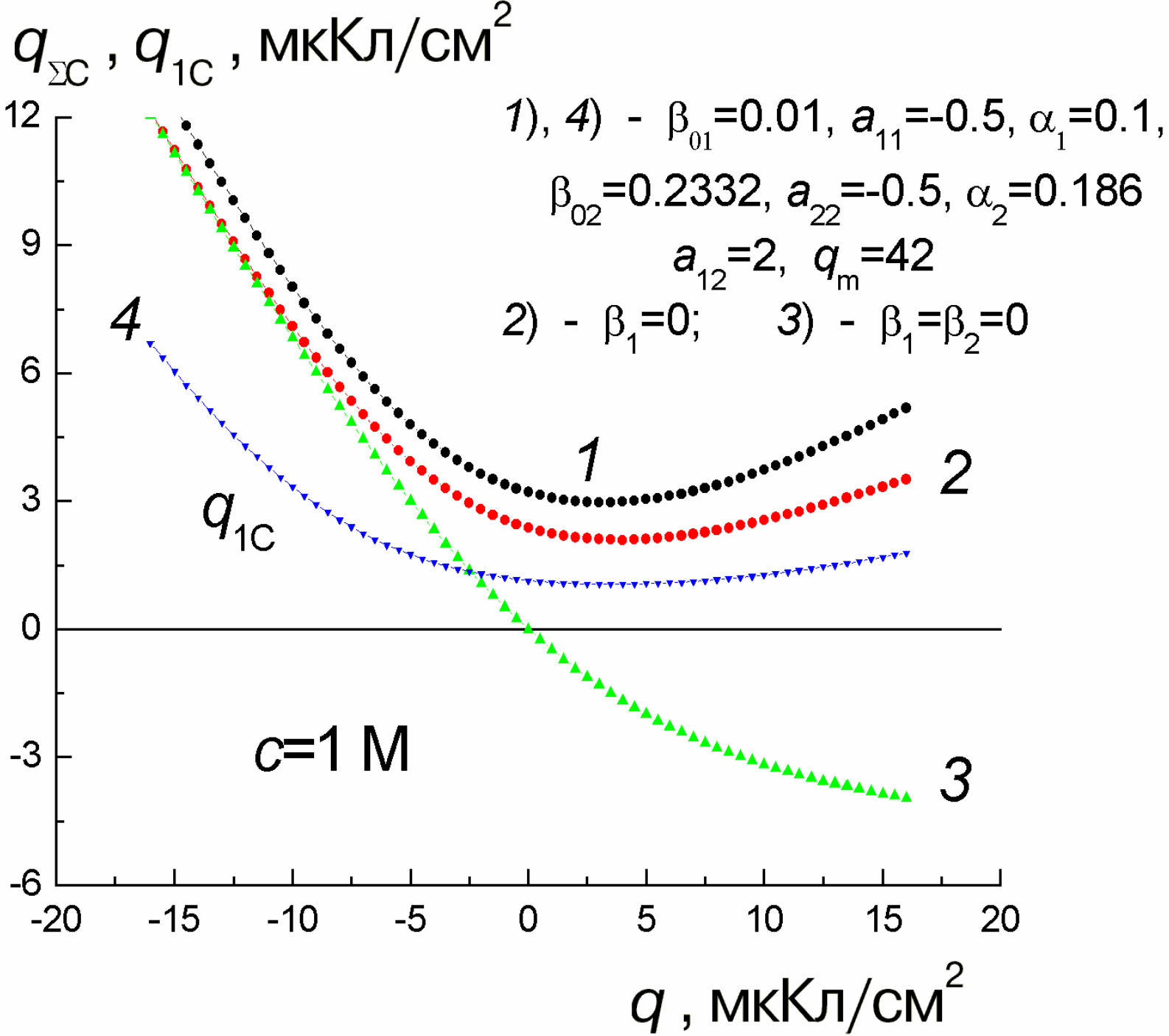
$$\beta_2 c_2^{\text{OHP}} = \frac{\theta_2}{n_2 (1 - \theta_2)^{n_2}} \exp(-2n_2 a_{22} \theta_2 - 2n_2 a_{12} \theta_1)$$

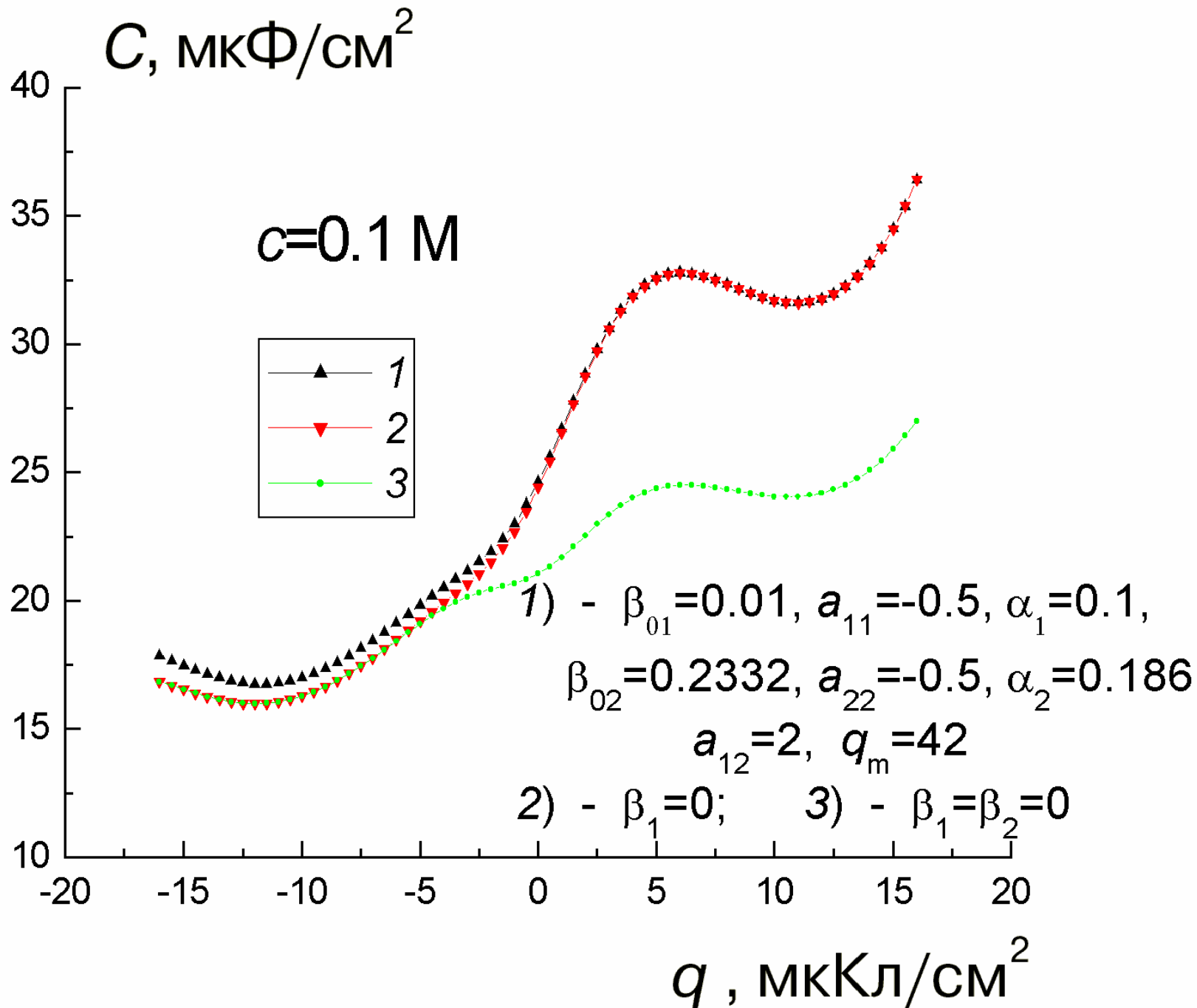
$$c_i^{\text{OHP}} = c \exp(-z_i F \varphi_2 / RT) = c (p + \sqrt{1 + p^2})^{2z_i / |z|}$$

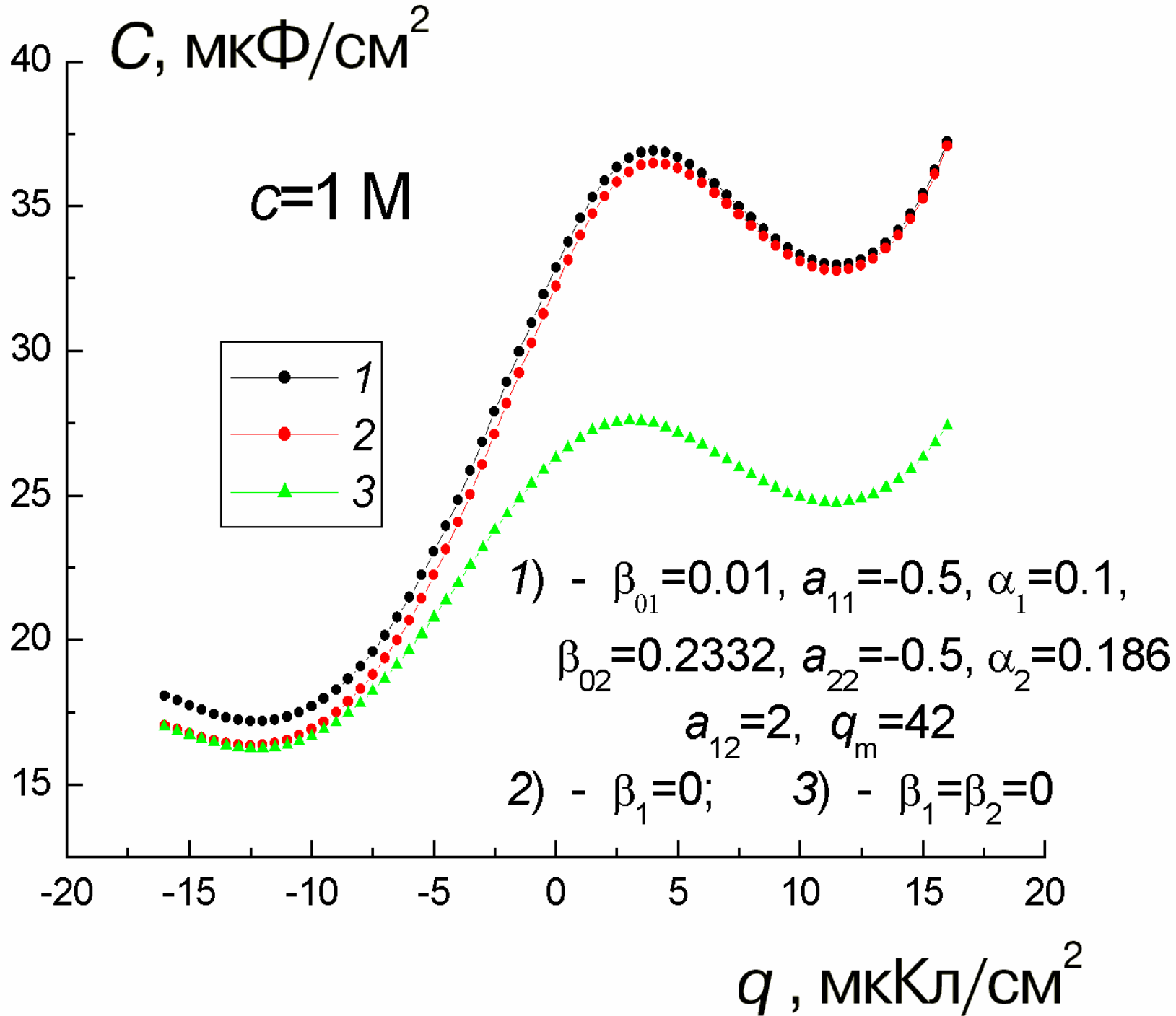
$$p = \frac{q + (z_1 \theta_1 + z_2 \theta_2) q_m}{2\sqrt{2RT\varepsilon_0\varepsilon c}}$$

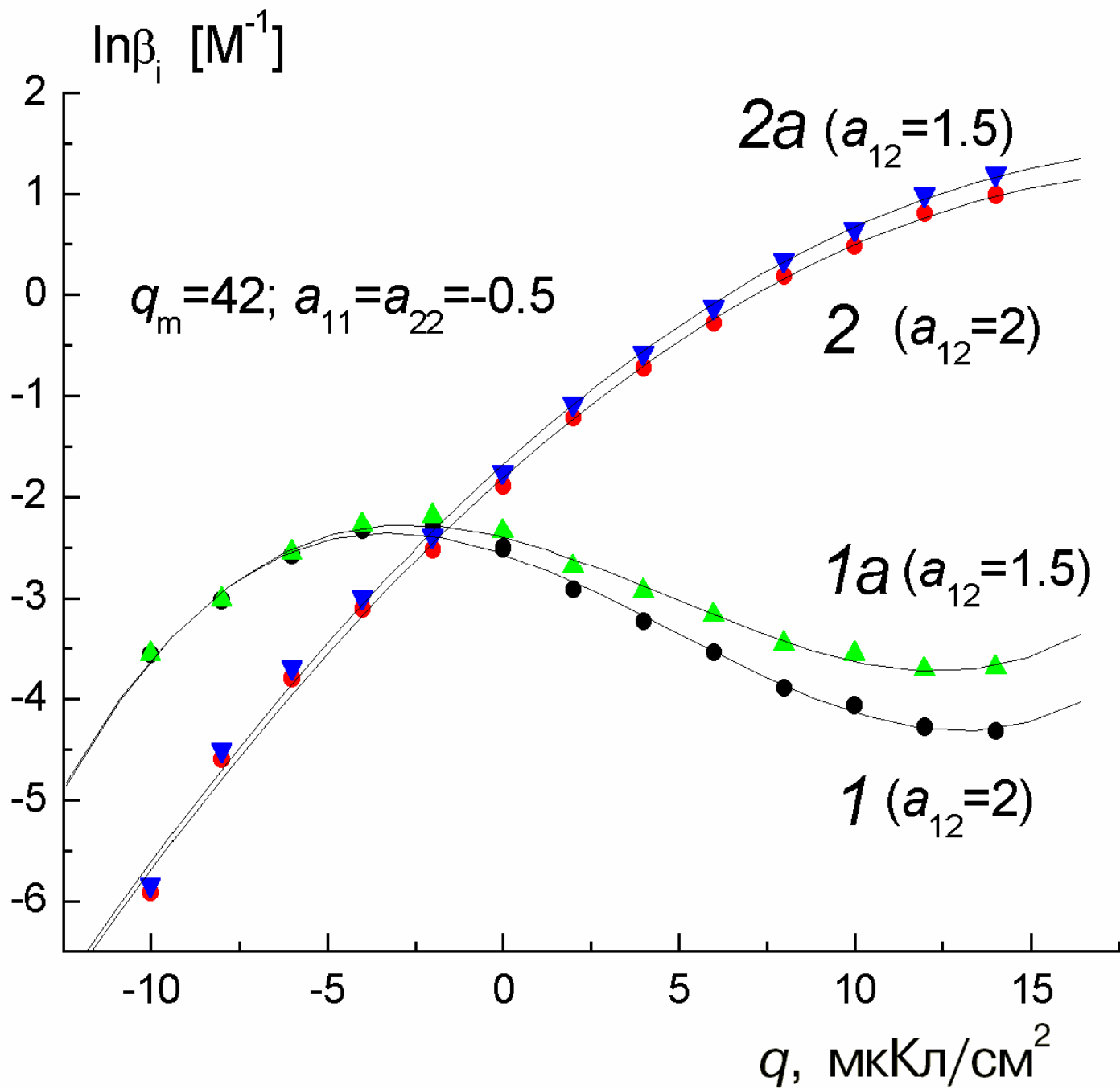
$$\ln \beta_i = \ln \beta_{0i} - z_i \alpha_i q$$

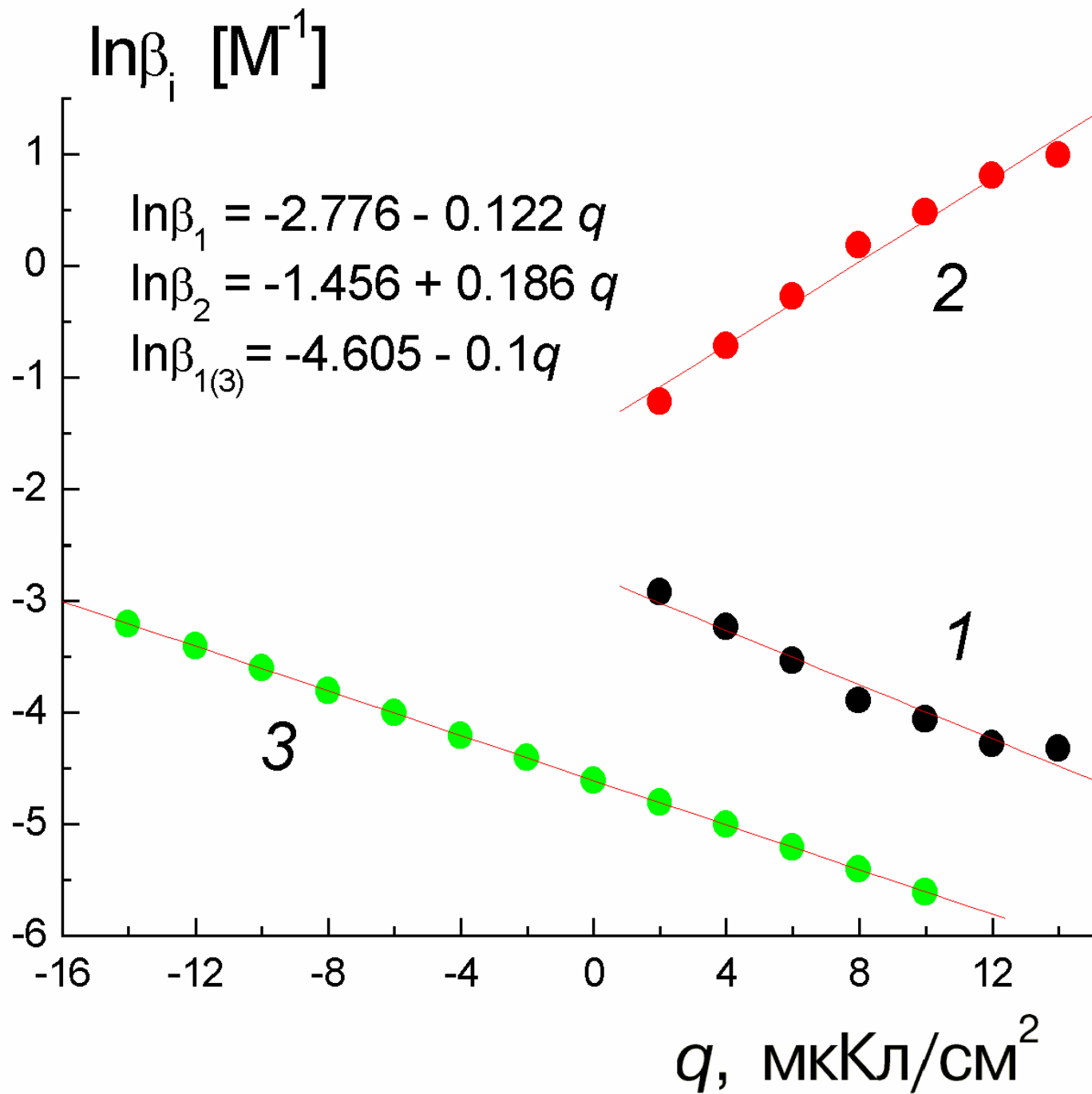


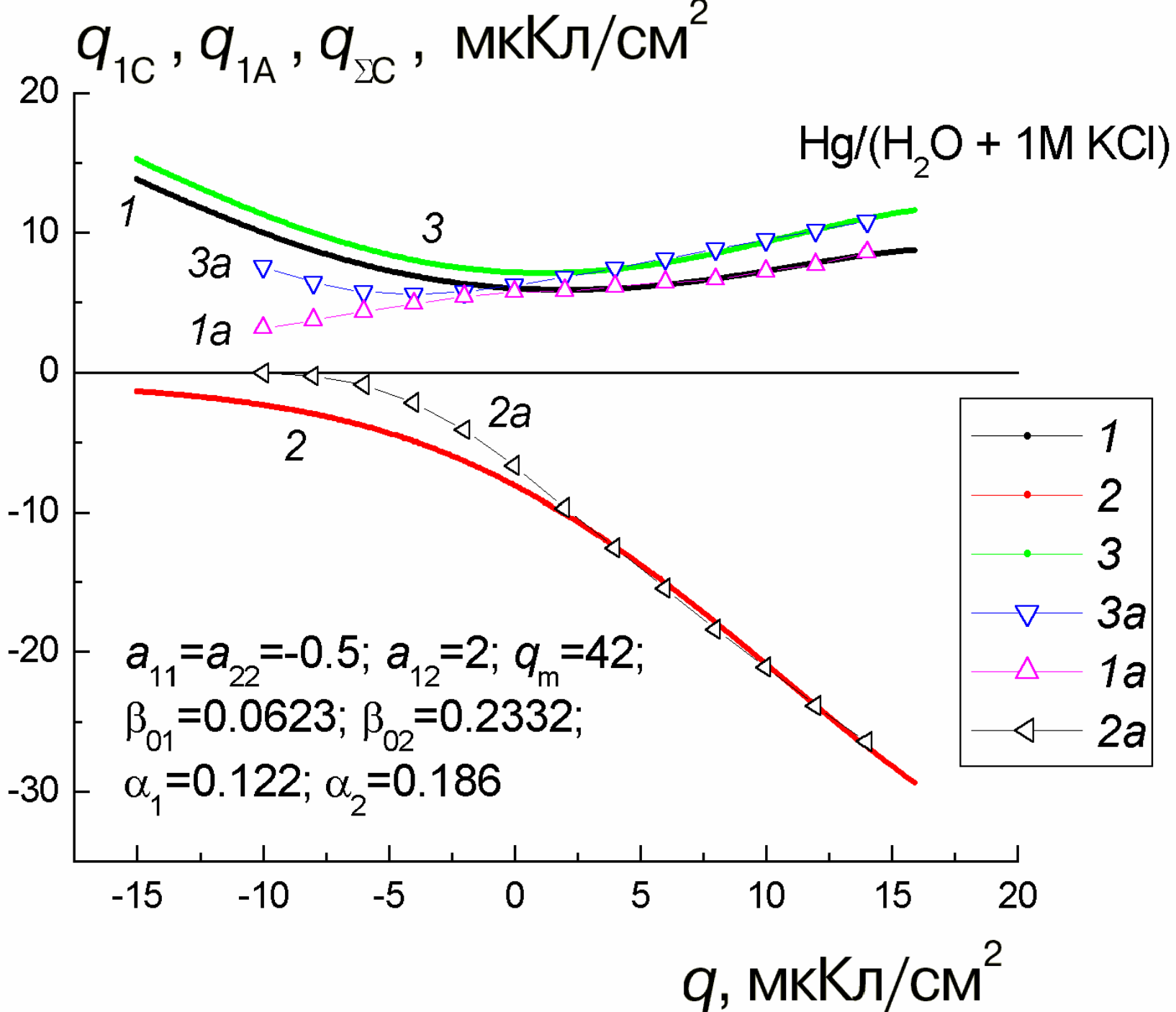


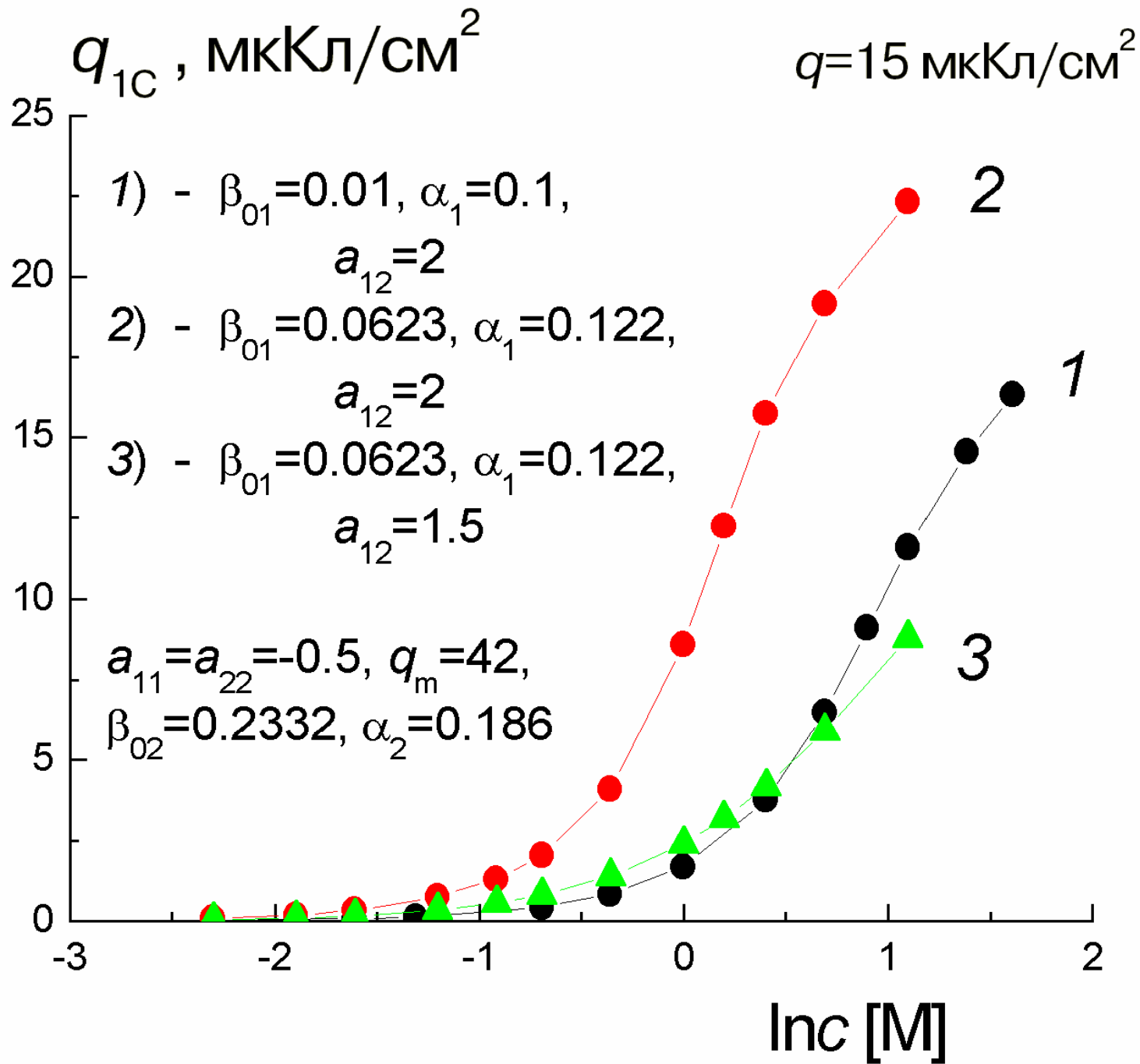


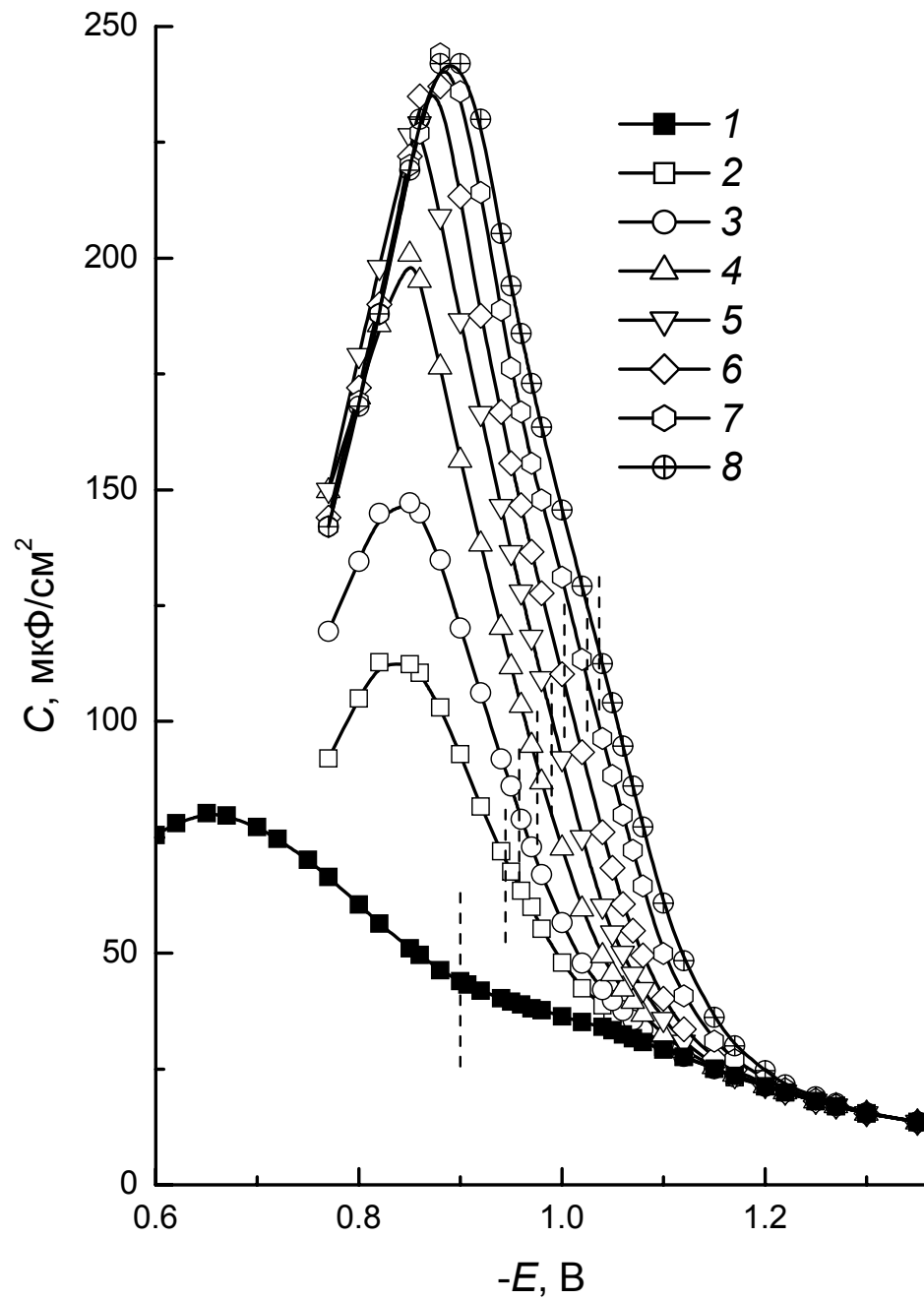


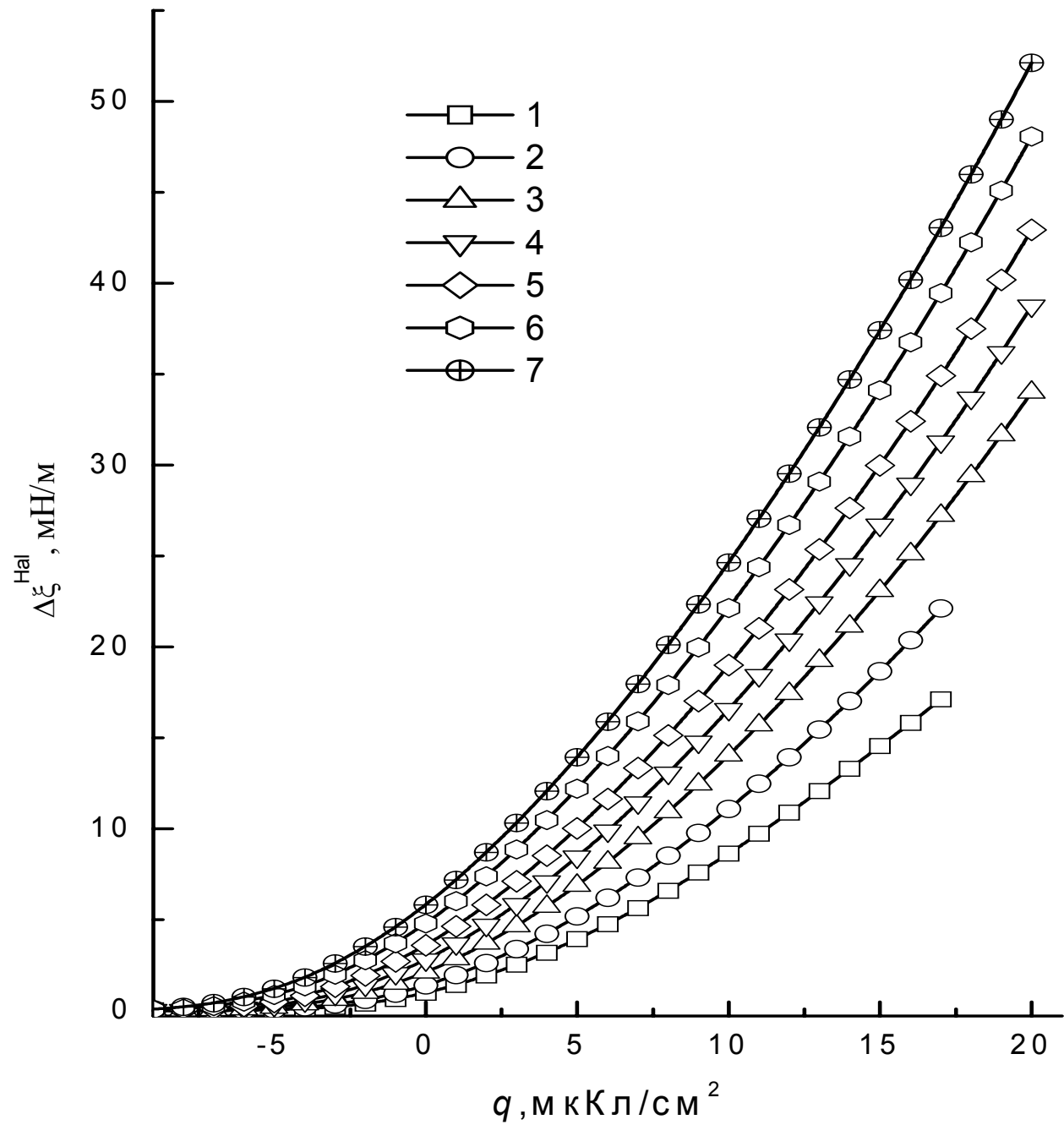


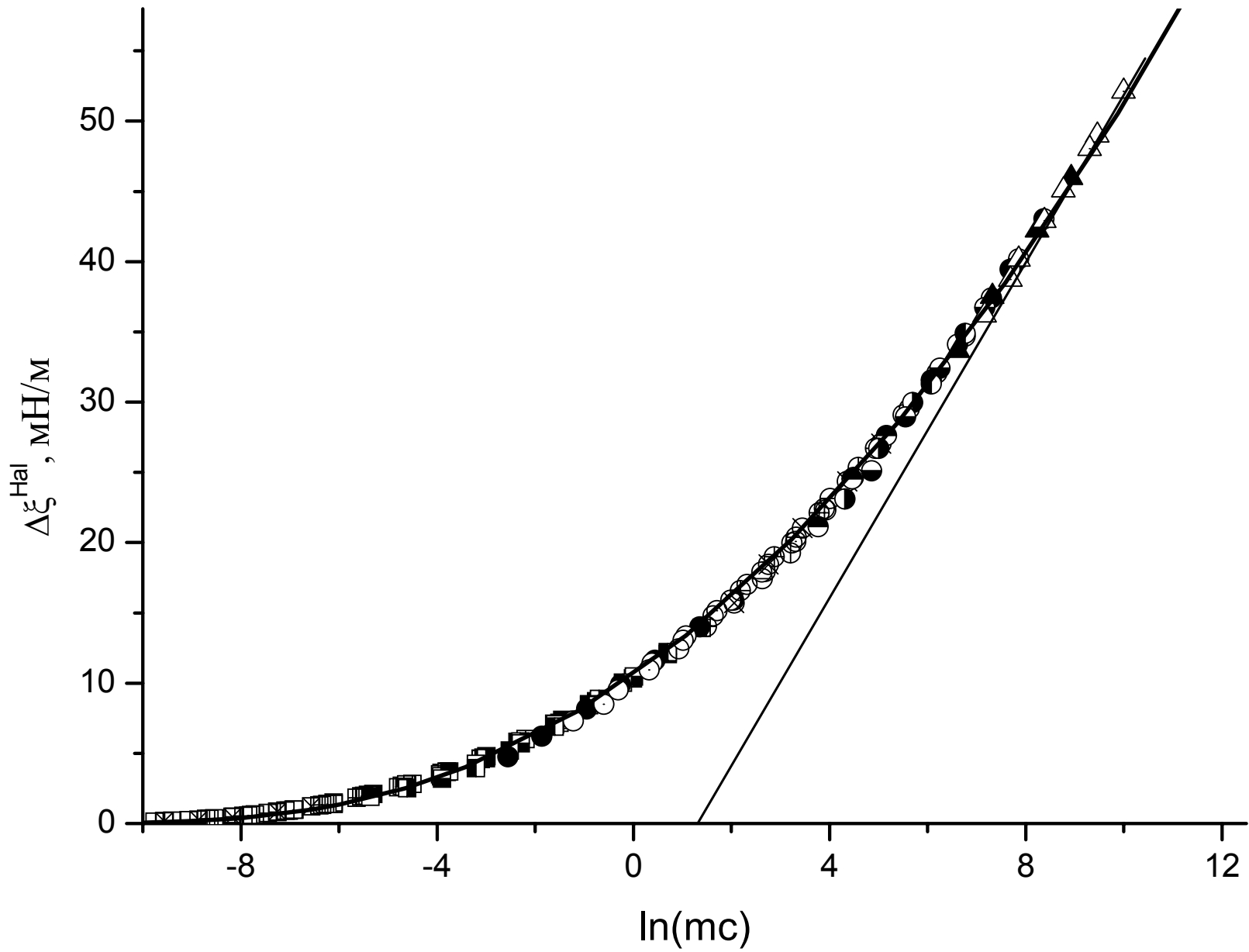


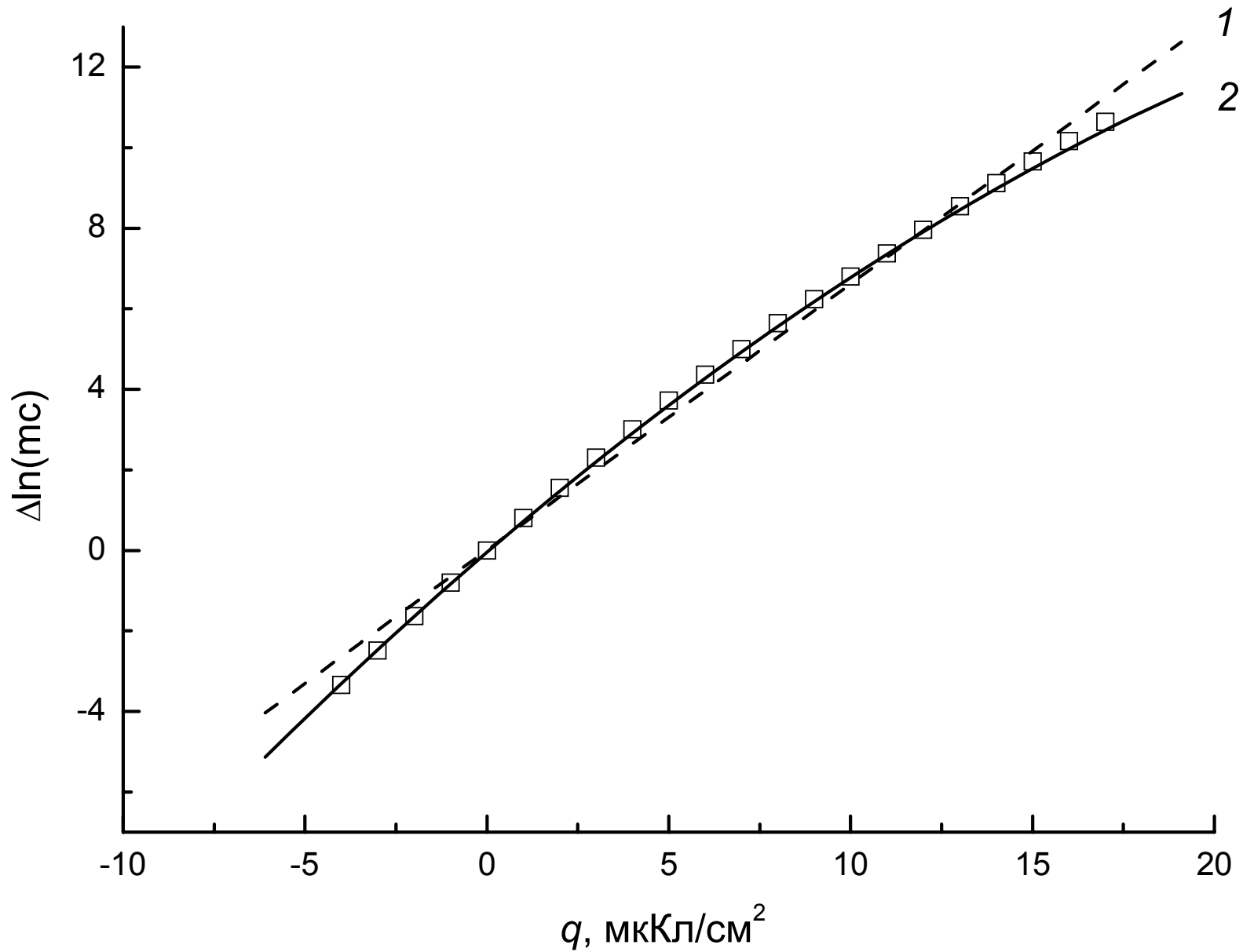


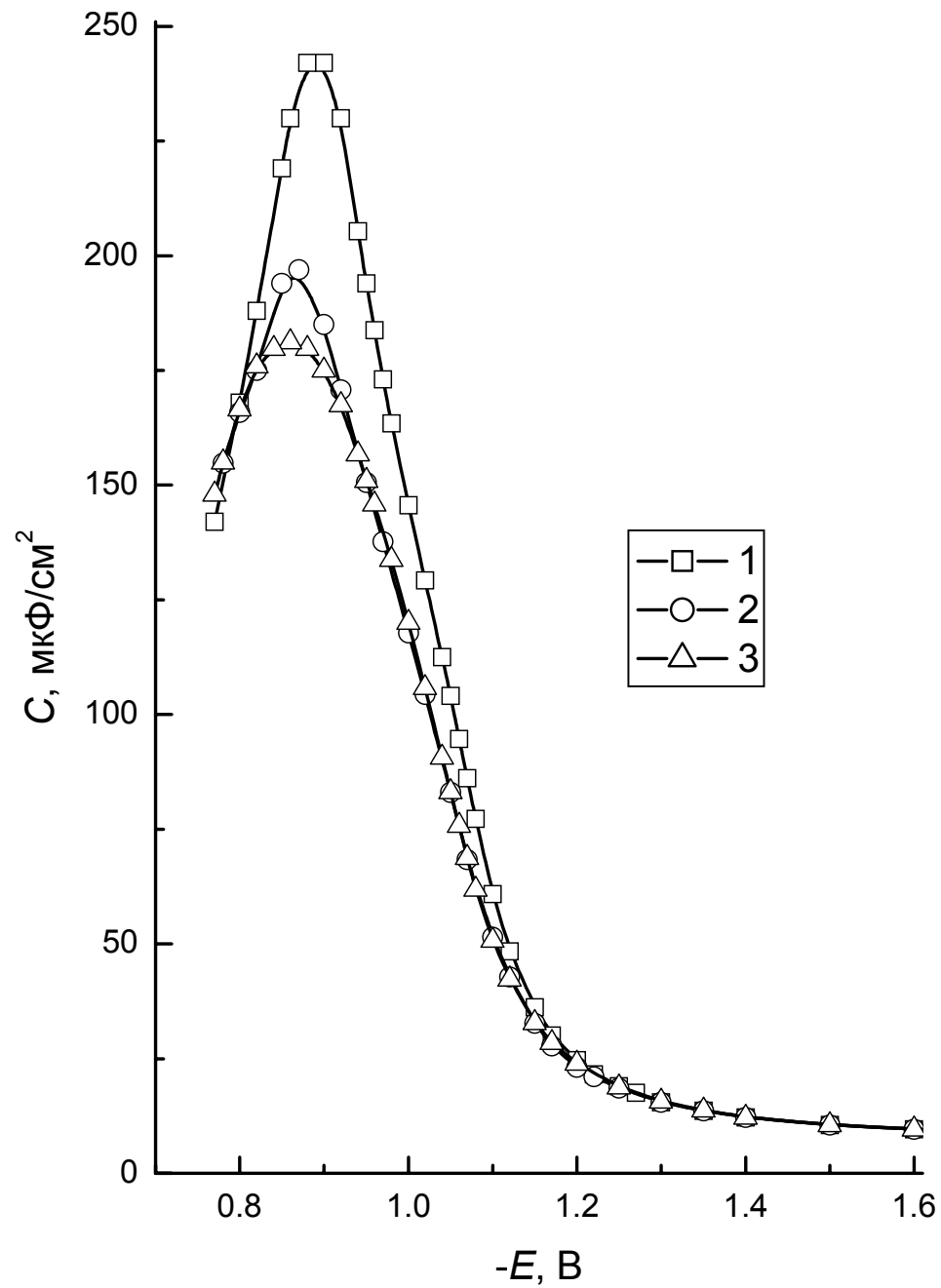


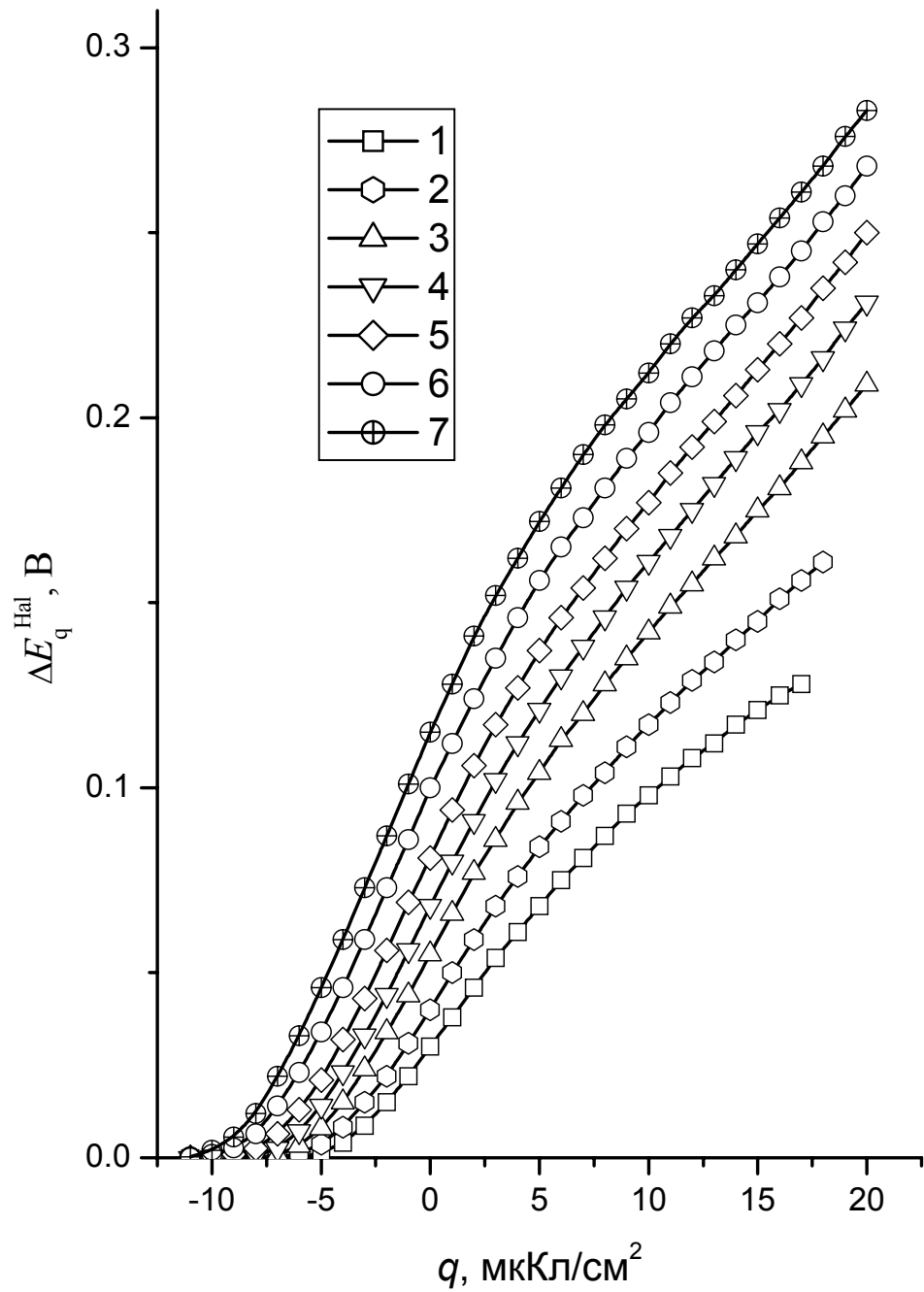


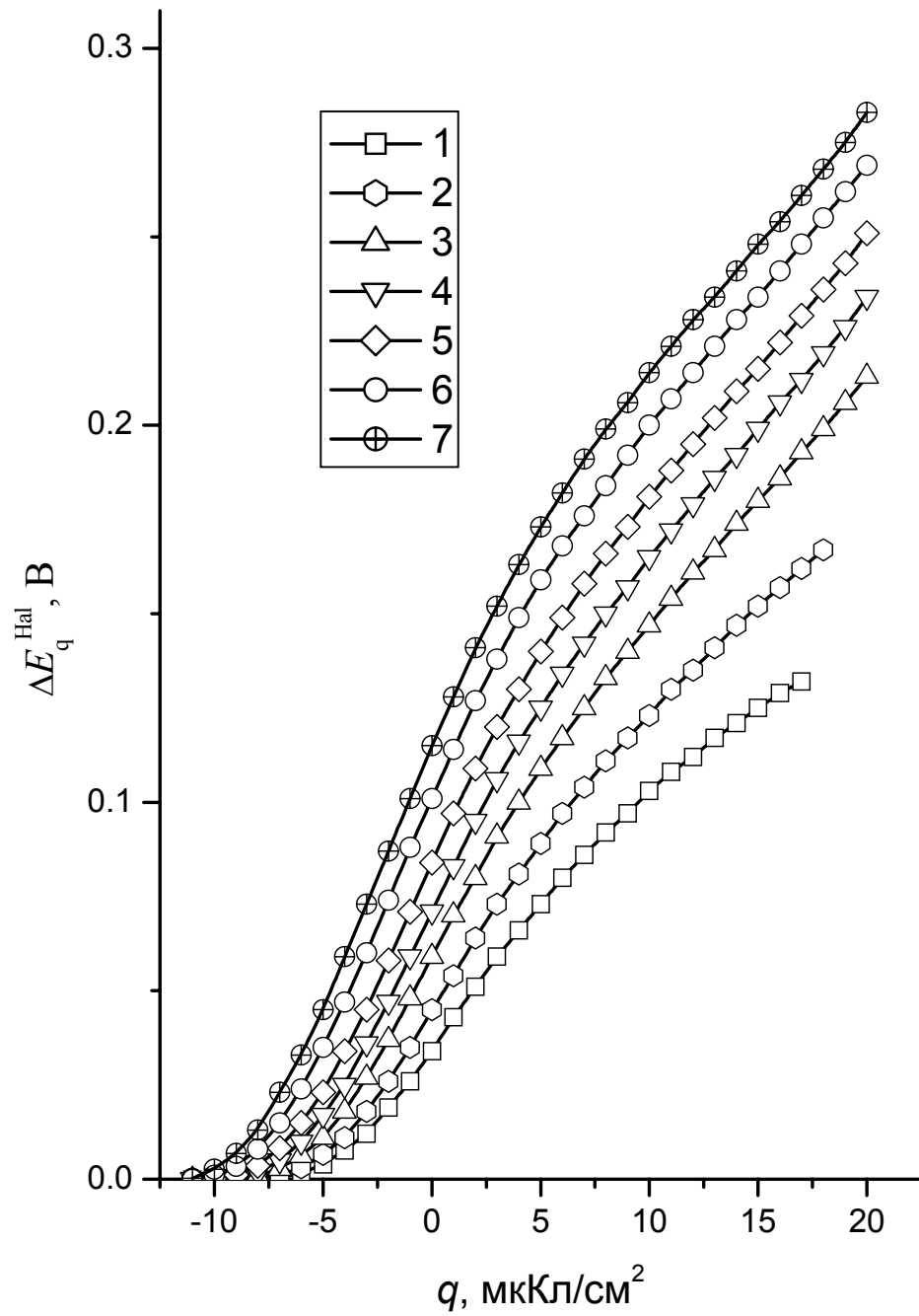


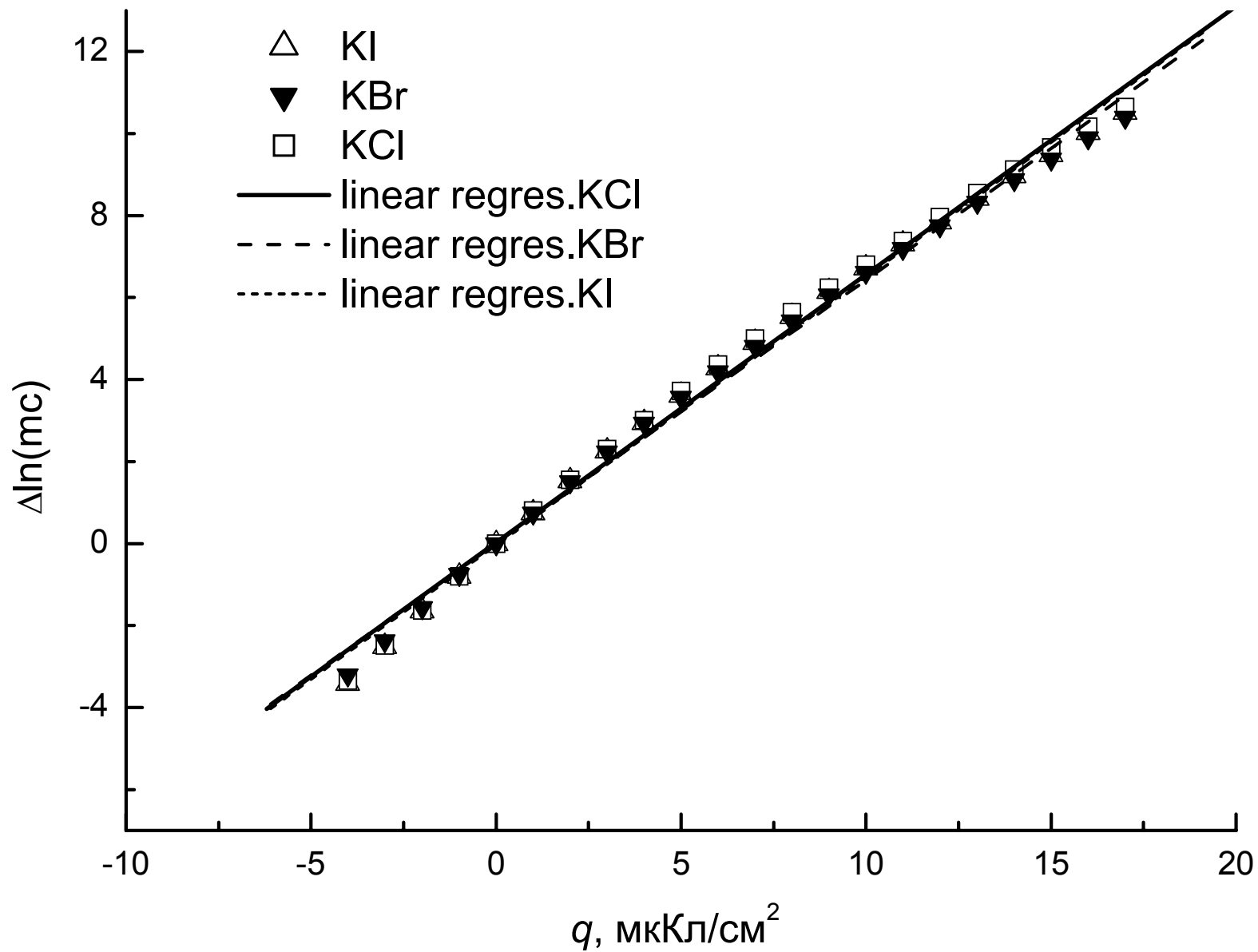






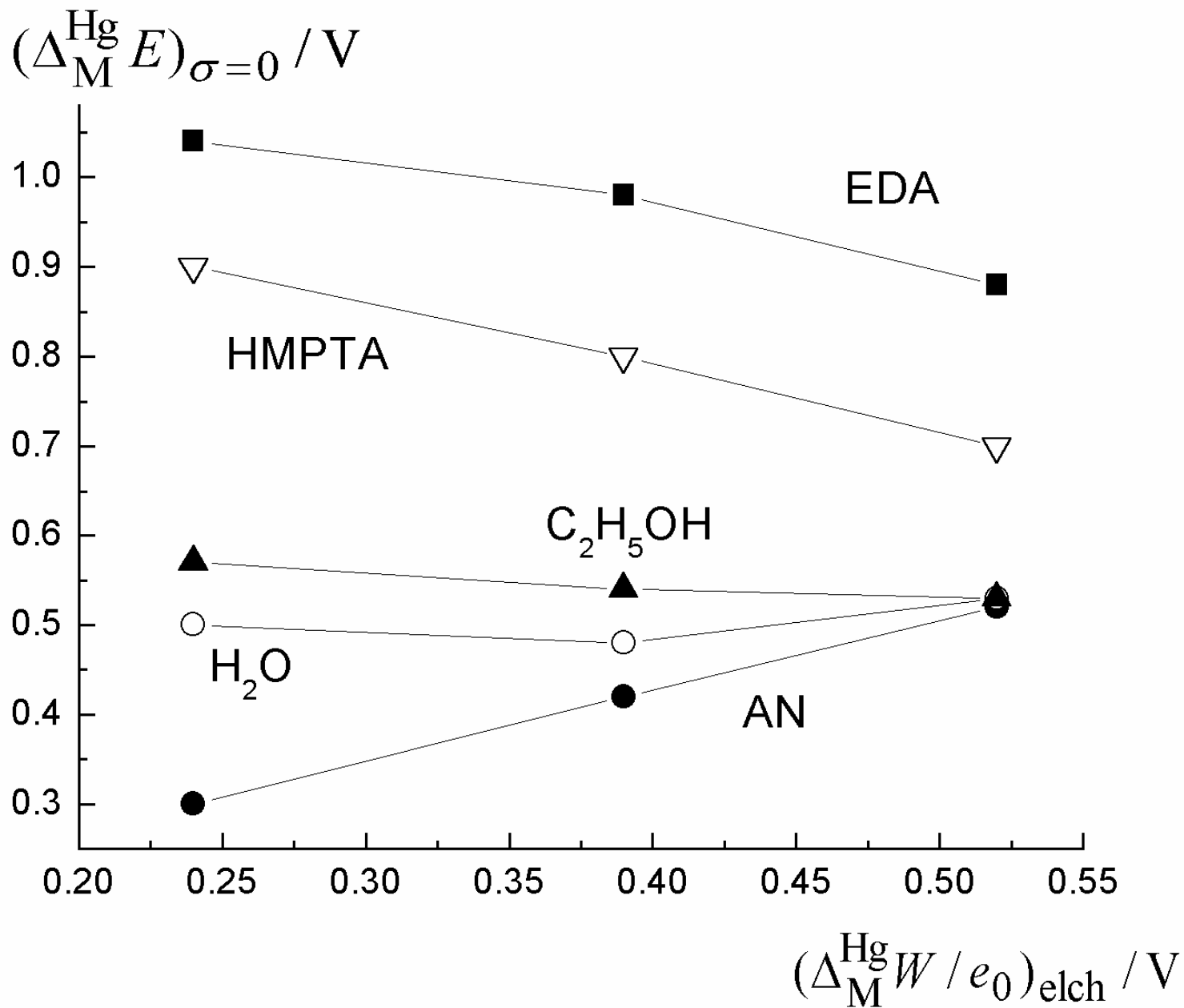


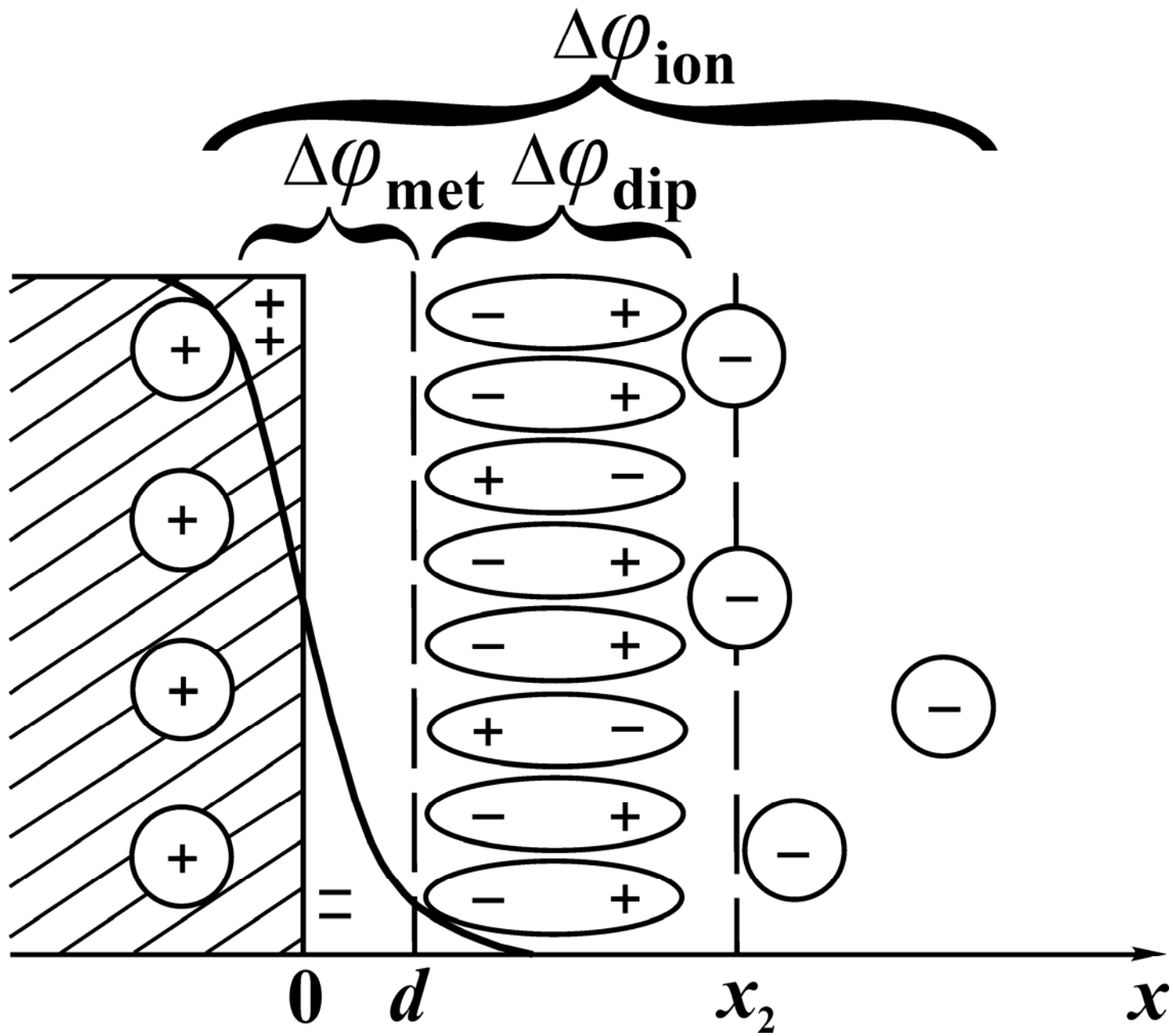




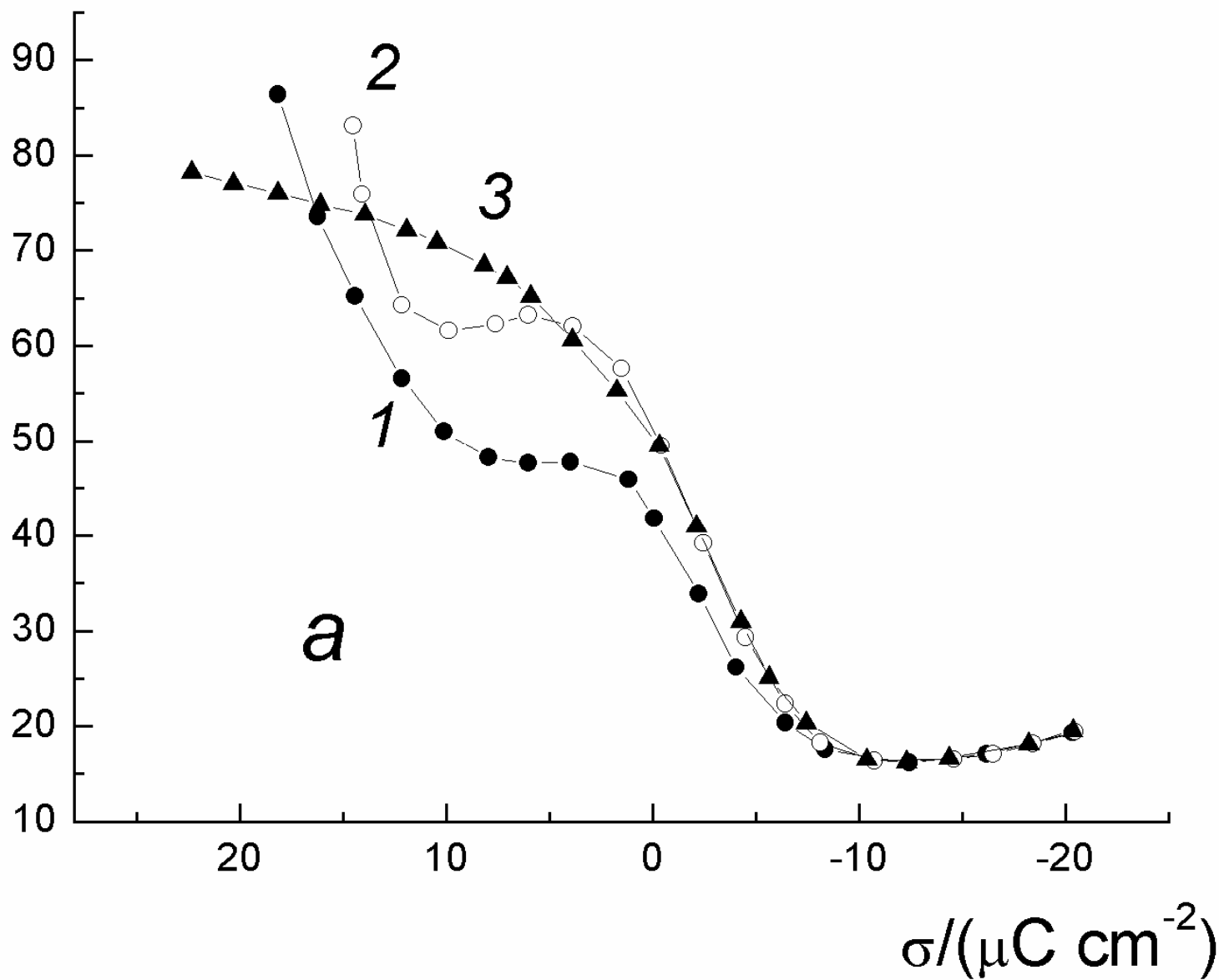
Оптимальный набор параметров изотермы Фрумкина для систем (А), (Б) и (В) при $q=0$.

Ион	A , мН/м	$\ln\beta$ [л/моль]	a	$\ln\beta + a$	Δ , мН/м
Cl^-	7	5.54	-8.77	-3.23	0.094
Br^-	7	5.3	-9.6	-4.3	0.063
Γ	7	5.3	-9.72	-4.42	0.1

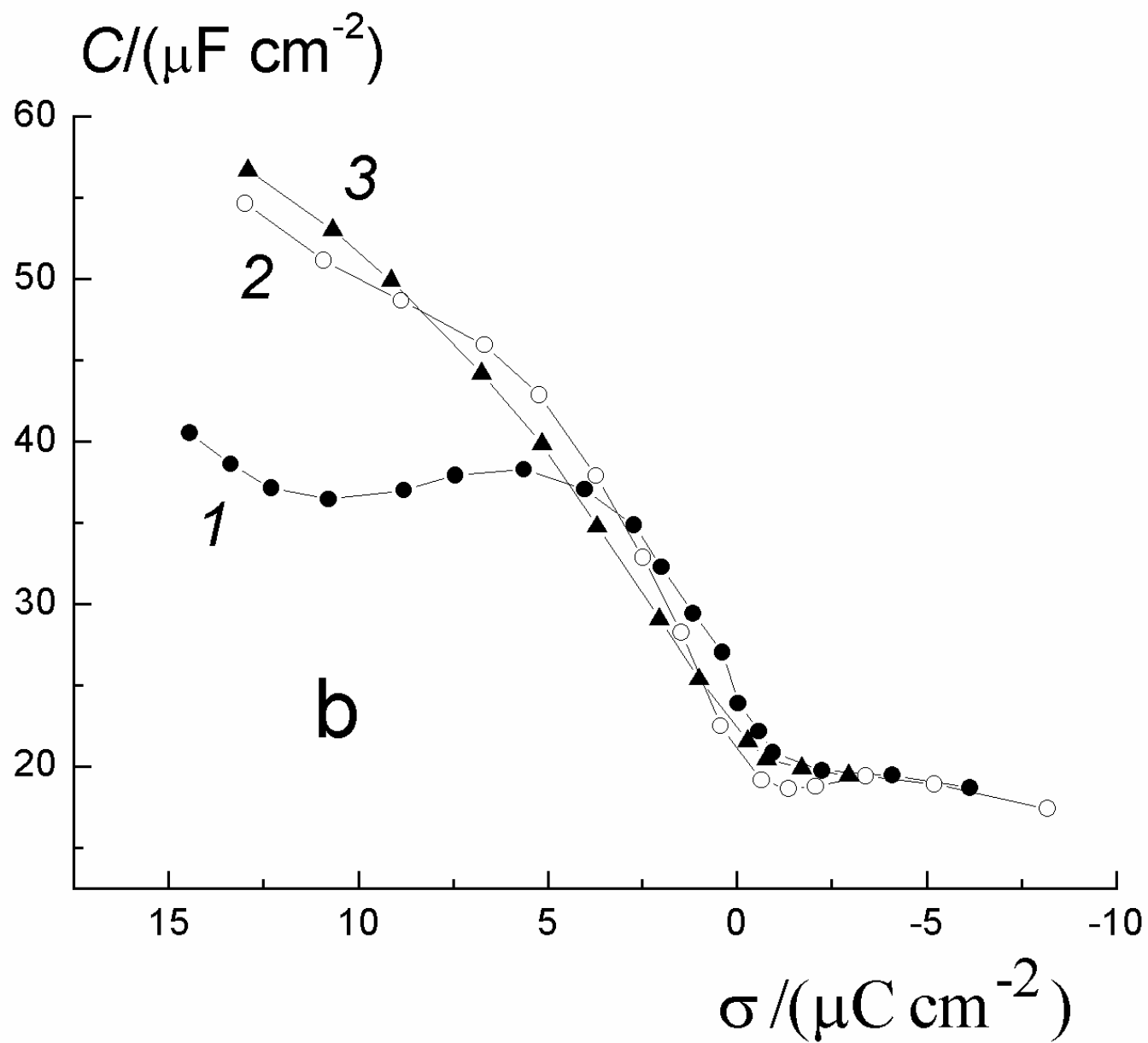


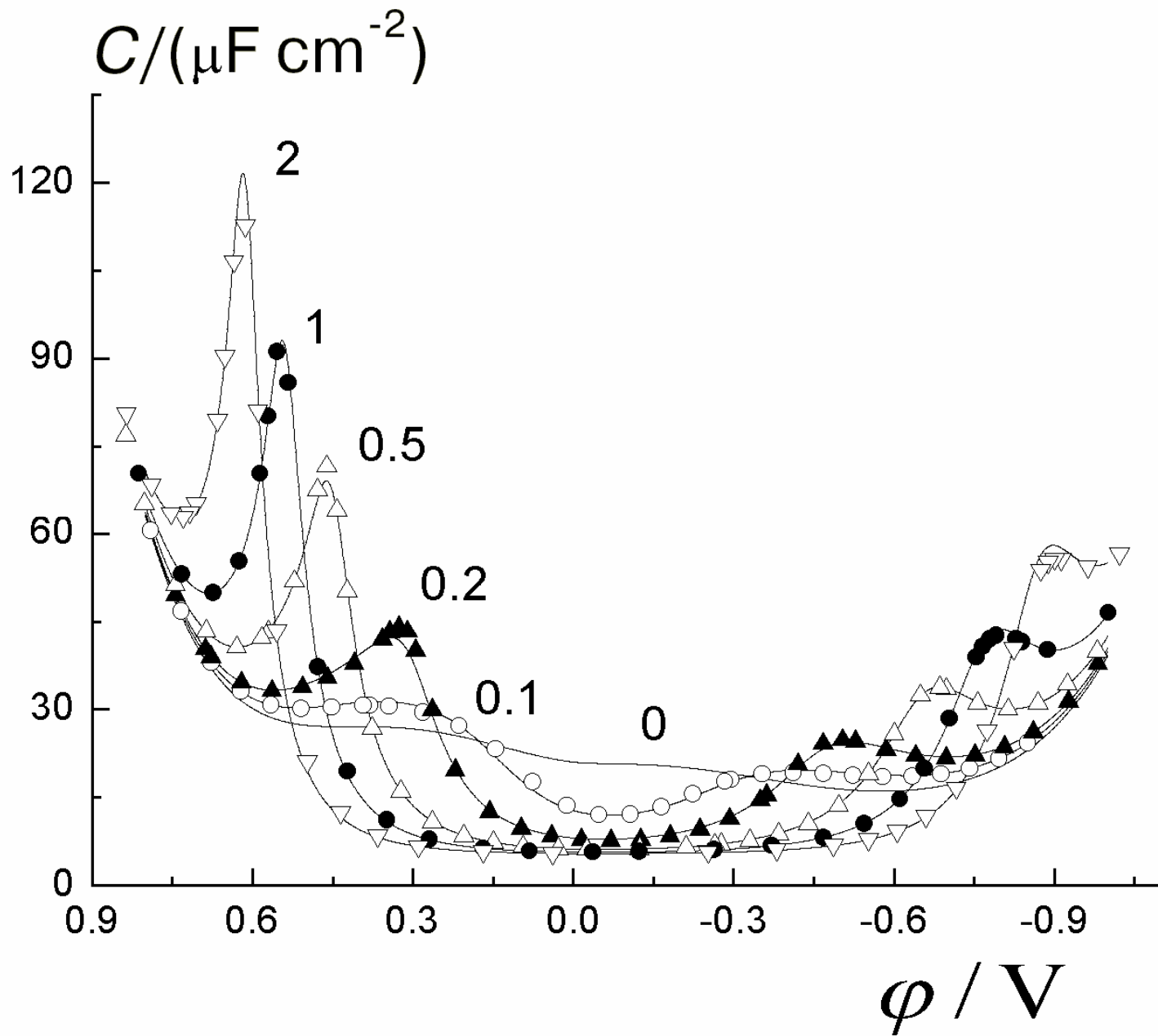


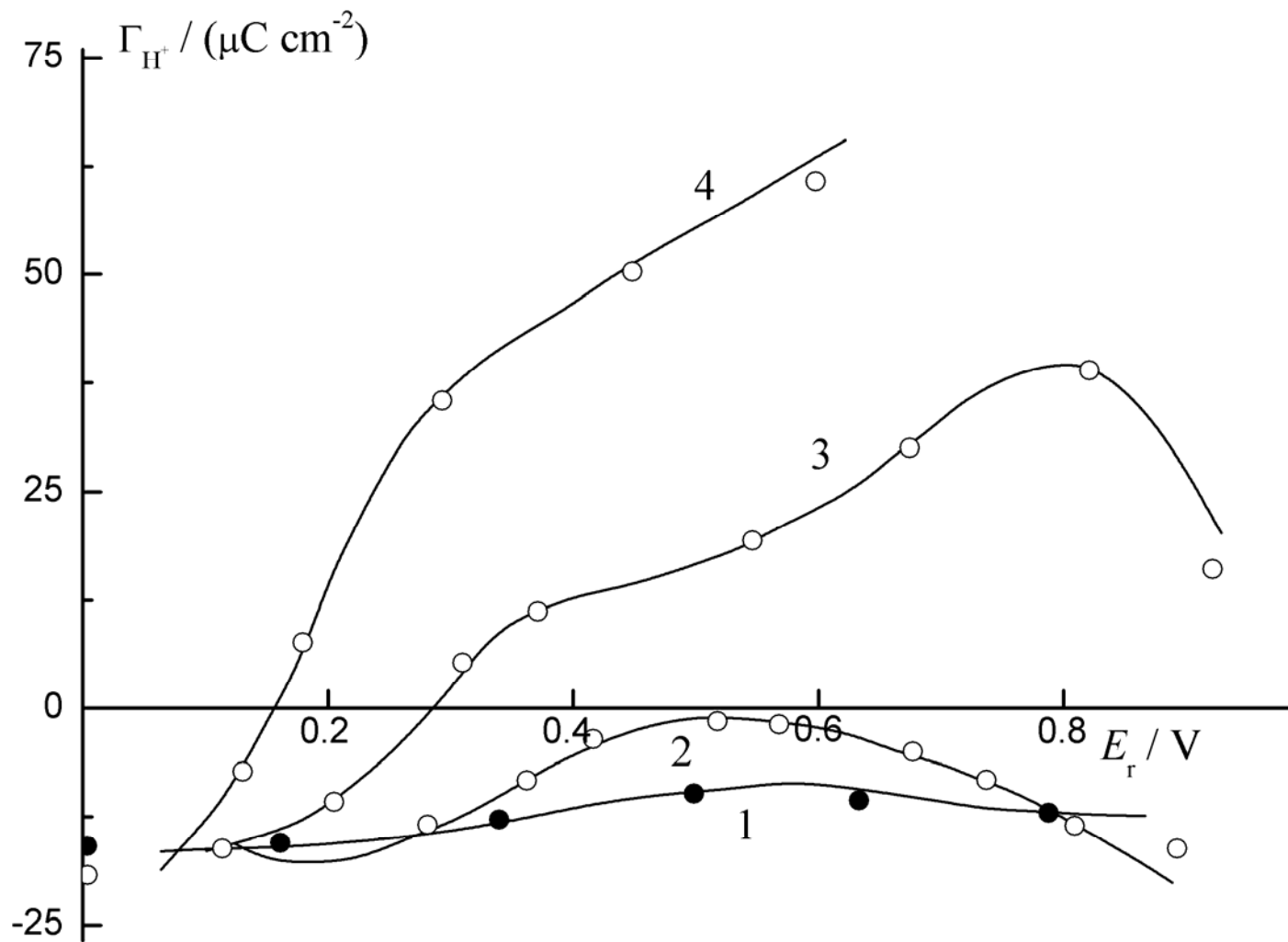
$C/(\mu\text{F cm}^{-2})$

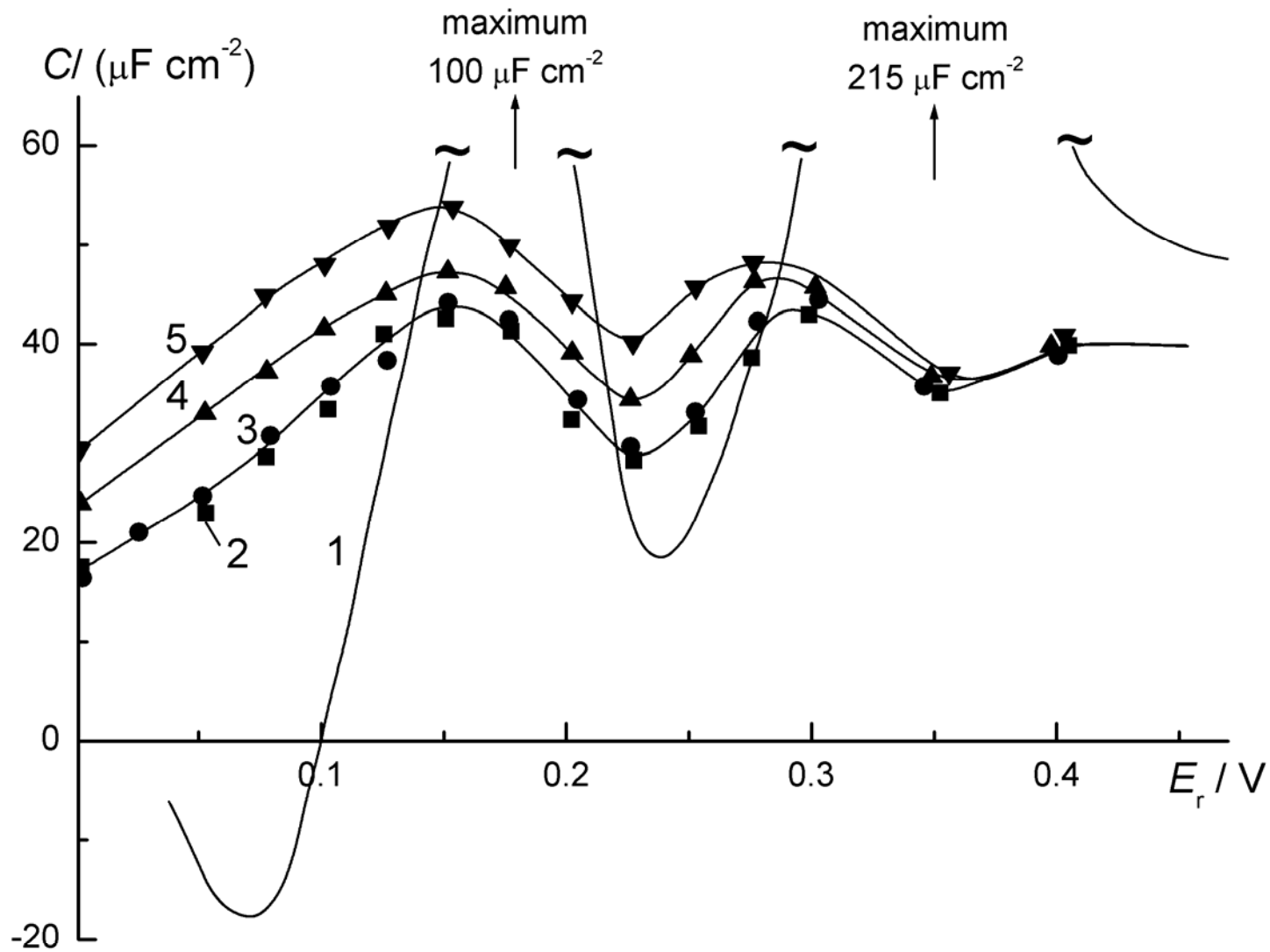


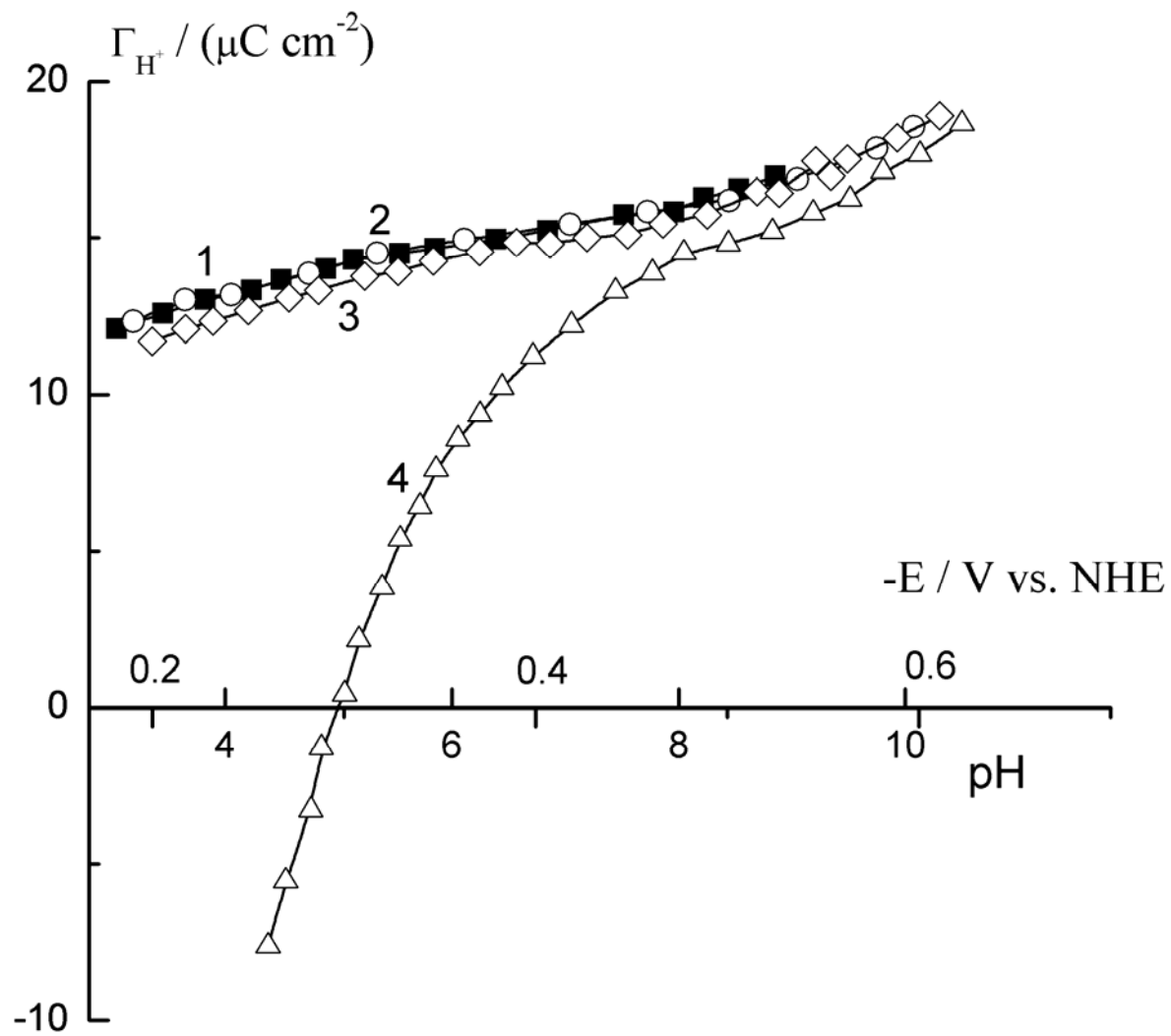
a











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6 статей