## **Supplementary Material**



**Fig. S1.** The dependence of a(t) on time, calculated by numerical integration (2) under the initial conditions: X(0) = -10,  $\dot{X}(0) = 0.7$ , a(0) = 0,  $\dot{a}(0) = 0$  and parameters:  $\varepsilon = 0.3$  (a),  $\varepsilon = 0.5$  (b),  $\varepsilon = 0.7$  (c).



**Fig. 52.** The dependence of a(t) on time, calculated by numerical integration (6), under the motion law of the DW (4) (a, c, e) and (5) (b, d, f) and parameters  $\varepsilon = 0.7$ :  $v_0 = 0.2$  (a, b),  $v_0 = 0.5$  (c, d),  $v_0 = 0.7$  (e, f).