



Fig. 10 – Calculated values of the electric potential and  $^{57}\text{Fe}$  quadrupole splitting parameter for different  $\delta r^-$  around cationic sites,  $\delta r = 0.001\text{Å}$ ;  $\Delta\theta = 18^\circ$ ;  $\Delta\phi = 36^\circ$ . The sign of the quadrupole splitting parameter for the iron Mössbauer isotope has no significance.