

Fig. 2. Initial points  $(x(0), y(0))$  corresponding to one fixed point  $x_- = y_- = -\sqrt{b(r-1)}$  are plotted, in which we fix as  $z(0) = r - 1$  for  $r = 18$ ,  $b = 8/3$  and  $p = 10$  in the Lorenz model. (b) is a blowup of (a).

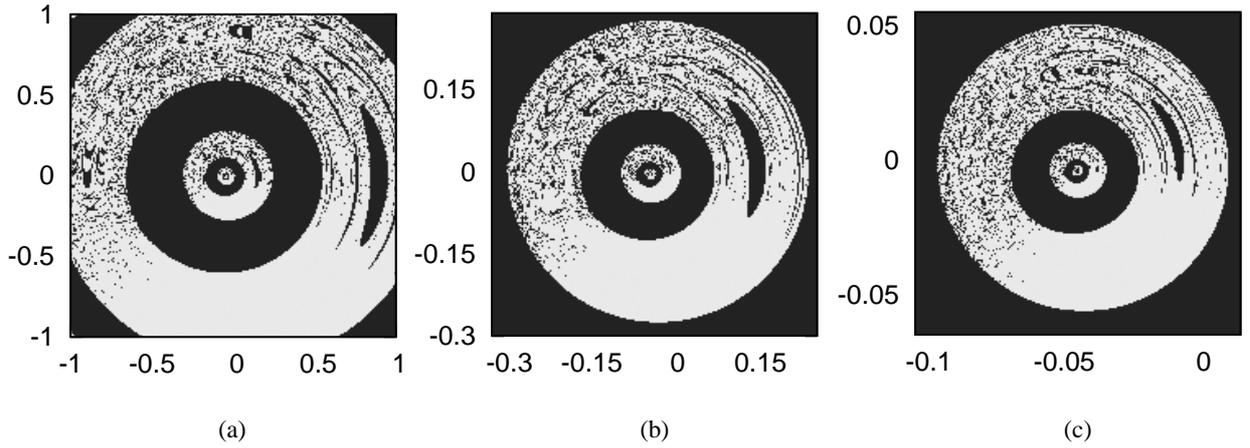


Fig. 3. Initial points satisfying  $\langle \Delta\theta \rangle < 0.766$  on the complex plane  $(\Re\{\psi_0^{(2)}\}, \Im\{\psi_0^{(2)}\})$  within the region  $[-1, 1] \times [-1, 1]$  are plotted in (a) for  $a = 2.39$ ,  $K = 0.10$ , and the fixed initial condition  $\psi_0^{(1)} = 1$ . (b) and (c) are respectively blowups of (a) and (b) with respect to the origin of the plane, where the area  $[-0.33, 0.27] \times [-0.30, 0.30]$  is shown in (b) and  $[-0.105, 0.015] \times [-0.065, 0.055]$  in (c).

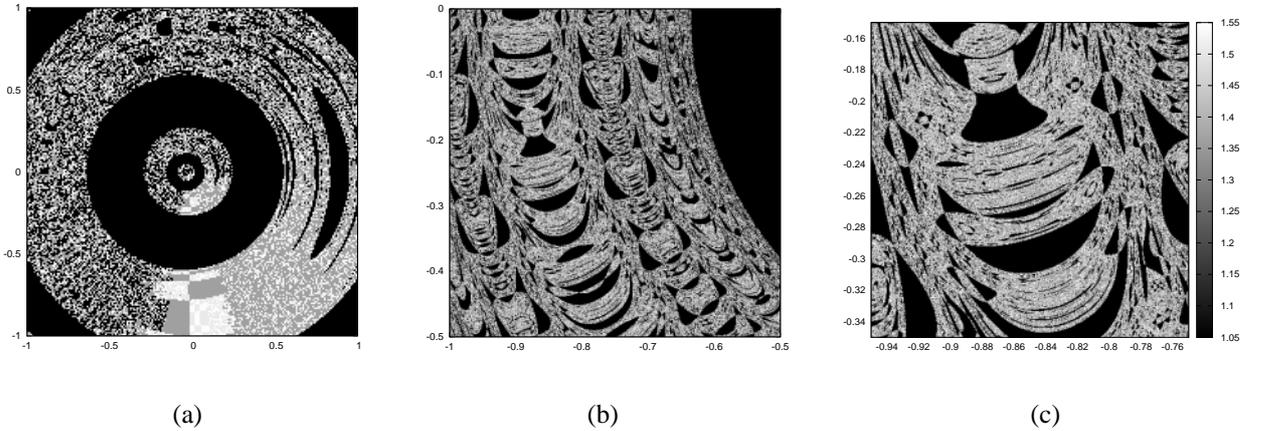


Fig. 4. Initial points  $(\Re\{\psi_0^{(2)}\}, \Im\{\psi_0^{(2)}\})$  corresponding to three attractors are plotted in black ( $\langle \Delta\theta \rangle = 1.051$ ), dark gray (1.364), and light gray (1.507) for  $a = 2.39$ ,  $K = 0.8003$ , and the fixed initial condition  $\psi_0^{(1)} = 1$ . Basin of the rest attractor corresponds to white regions ( $\langle \Delta\theta \rangle = 1.543$ ). Plotted areas in (a), (b) and (c) are respectively  $[-1, 1] \times [-1, 1]$ ,  $[-1.0, -0.5] \times [-0.5, 0]$  and  $[-0.95, -0.75] \times [-0.35, -0.15]$ .