Erratum:

W. Lange, Yu. A. Logvin, T. Ackemann.
Spontaneous pattern formation in an atomic vapor: observation and simulation.
Physica D **96**, 230-241, 1996.

Page 233, caption of Fig. 2:
$\Omega_z = -2\pi(264 \pm 4)$ kHz

Page 235, eq. (2):

$$\frac{d}{dt}\mathbf{m} = -(\gamma - D\nabla^2 + P)\mathbf{m} + \hat{\mathbf{e}}_{\mathbf{z}}P - \mathbf{m} \times \mathbf{\Omega}. \tag{1}$$

Page 237, after eq. (8):
The correct expression for Ξ is
$\Xi = -RP_0 \mathrm{Re}\chi_{lin} kl\, |e^{(-ikl\chi_{lin}(1-w_s)/2)}|^2 \times \left(\sin(k_\perp^2 d/k) + \frac{1}{\bar{\Delta}}\cos(k_\perp^2 d/k)\right)$

Page 237, caption of Fig. 5:

$$\Gamma_2/\pi = 3.6\mathrm{GHz}$$

Section 3:
In the theoretical description all detunings Δ should be replaced by the normalized detuning $\bar{\Delta}$, which is given by

$$\bar{\Delta} = 2\pi\Delta/\Gamma_2$$

where $\Delta = \nu_{las} - \nu_{D_1}$ denotes the detuning of the frequency of the input light ν_{las} and the sodium D_1-resonance at 589.6 nm.

The exact parameters for the numerical simulations (Fig. 5 to 8) are:
$\Delta = -16$ GHz, ($\bar{\Delta} = -8.889$), $\Omega_x/(2\pi) = 32$ kHz, $\Omega_z/(2\pi) = -264$ kHz, $N = 10^{14}$ cm^{-3}.
The dynamics are however not sensitive to the parameters in the region considered.