

Problem 1

Consider the one dimensional diffusion equation for the random walkers, as seen in Lecture 10

$$\frac{\partial n(x, t)}{\partial t} = D \frac{\partial^2 n(x, y)}{\partial x^2}$$

Then

1. Solve the diffusion equation using the Fourier analysis method, for the initial condition given by a Dirac delta centered at $x = 0$, $n(x, 0) = \delta(x)$ (we can set our reference area $A = 1$, so $\delta(x)$ has the correct dimensions).
2. We can interpret this initial condition as putting all the particles initially at $x = 0$. Then, if we want to compute the mean square displacement at time t , we just need to compute

$$\langle x^2 \rangle = \int_{-\infty}^{\infty} dx x^2 n(x, t)$$

show that $\sqrt{\langle x^2 \rangle} \sim \sqrt{t}$, a well known result in the theory of random walkers/Brownian motion.

Problem 2

When we stir a cup of coffee or tea, we see that a shape forms, that is more hollow at the center than at the sides (see figure). The objective of this problem is to determine such shape, using several approximations.

1. Consider an incompressible (so the density is a constant ρ_0) fluid in a cylindrical recipient, that has reached steady flow ($\partial_t u = 0$) and its field of velocities u can be assumed to be such that all particles move with constant angular velocity Ωe_ϕ . Using an appropriate ansatz for the pressure function p , given the symmetries of the problem, write the Euler eqs. in components. **Hint:** it can be convenient to use cylindrical coordinates.

$$(u \cdot \nabla)u = -\nabla p + \rho_0 \vec{g}$$

2. Solve the equations for p , using an ansatz of the form $p = A(r) + B(x_\phi)$ and assuming you know the height h_0 of the fluid at $r = 0$ (remember that at the surface the pressure is constant everywhere and equal to the atmospheric pressure p_0). Consider then a parametrization $x_\phi = h(r)$ and determine the shape of the fluid.

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Léo Pomar



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