Investigation on the theory of the Brownian Motion

A short overview

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Introduction

Goal of this study

We aim at building a new theory for random movement of particles

- Bla bla
- Bla bla
- Bla bla

because **bla bla**.

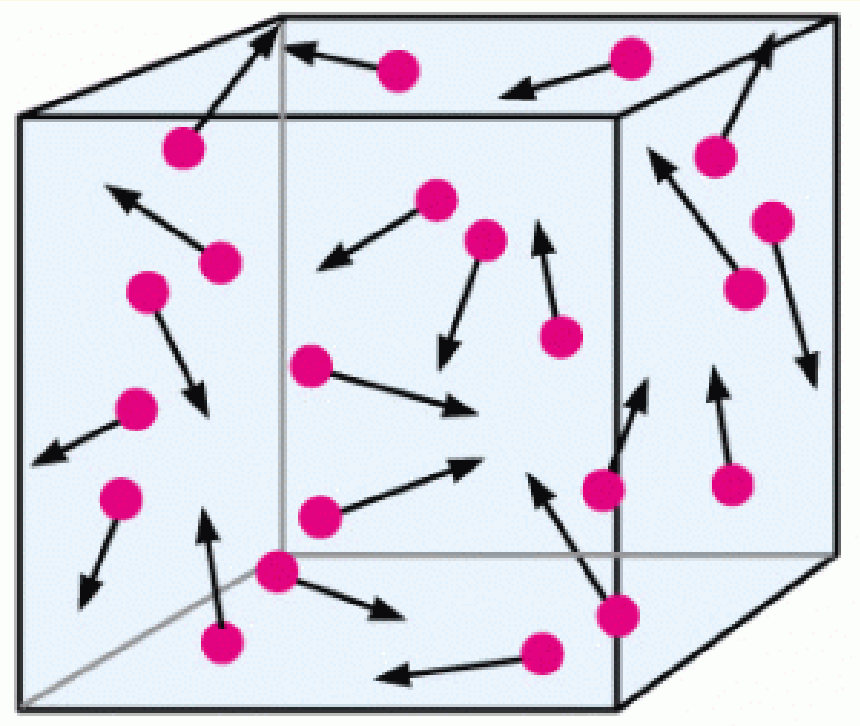
Contents

Part 1.

On the movement of small particles in a stationnary liquid

System description

Particles in a stationnary liquid



System representation

- Elementary particles
- Thermal agitation
- Random collisions

Part 2.

On the theory of Brownian Motion

Einstein's equations

Particles in a stationnary liquid

Main result

For particles in a stationnary liquid, we have:

$$< (\Delta x)^2 > = \frac{RT}{N} \frac{1}{3\pi\mu a} \tau$$

Some interesting perspectives

Few insights

I think that

- Bla bla bla
- Bla bla bla
- Bla bla bla
- Bla bla bla

has to be further examined...