

Pattern Formation - Homework 1

Deadline: October 1, 6PM

Test of imagination (30pt)

Think of spatial or temporal patterns that can be observed around you. Analyze a few of them by trying to answer the following questions:

- i) Why do you think it is an interesting pattern?
- ii) Is it relevant for some purposes?
- iii) Can you characterize the patterns in simple terms (in terms of a few parameters)?
- iv) What is the physics (or chemistry, or ...) underlying the emergence of the given pattern?
- v) Could you write down the equations which would yield the parameters of the pattern?