

Numerical Simulations of Ideal Chain Model of Polymer using the Freely Jointed Chain (FJC)

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1 Introduction

- General introduction about physics of polymer. Discrete models. Examples
- Theory of FJC model.
- Presentation of measure of extent (metrics). Relationship with experimental measurement.
- Goal of the practical work

2 Methods

- Numerical simulations: Parameters + Brief description of the algorithm
- Examples of structures generated
- Time series + mean square and distributions statistical tools (theory) + Monte-Carlo
- Summary of data produced (ex: Table)

5 References

From 5 to 10 references maximum. Books or research paper, no website here.

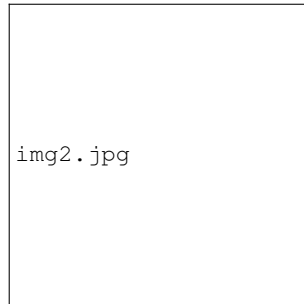
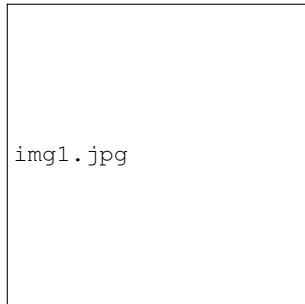


Fig. 1 Two polymer structures generated from FJC model simulations for $N = 100$ and $b = 3.0$.

3 Results and Discussion

- Description of the numerical results (Parts 1 to 4)
- Comparison with theoretical results (qualitatively and quantitatively)
- Discussion

4 Conclusion

- General conclusion about FJC model
- Summary of the main results
- Perspectives