

qdCAD: the quantum-dot engine

Primož Pečar, Miha Moškon, Iztok Lebar Bajec

Group 1

Abstract. A short abstract is always usefull for the reader to quickly evaluate if the paper is intersting to him or not. The abstract should be written in a manner to summarize the paper content and attract the reader.

Keywords. quantum-dot cellular automata, modelling and simulation

Contents.

1 Introduction	2
2 Methods	2
2.1 Method 1	2
3 Results and Discussion	2
4 Conclusion	2
References	3

1. Introduction

The Hamiltonian ... Ternary logic done with ternary quantum-dot cell [1–3].

2. Methods

present the employed methods

2.1. Method 1

give overview of method

3. Results and Discussion

show some results like Fig. 1 and discuss them

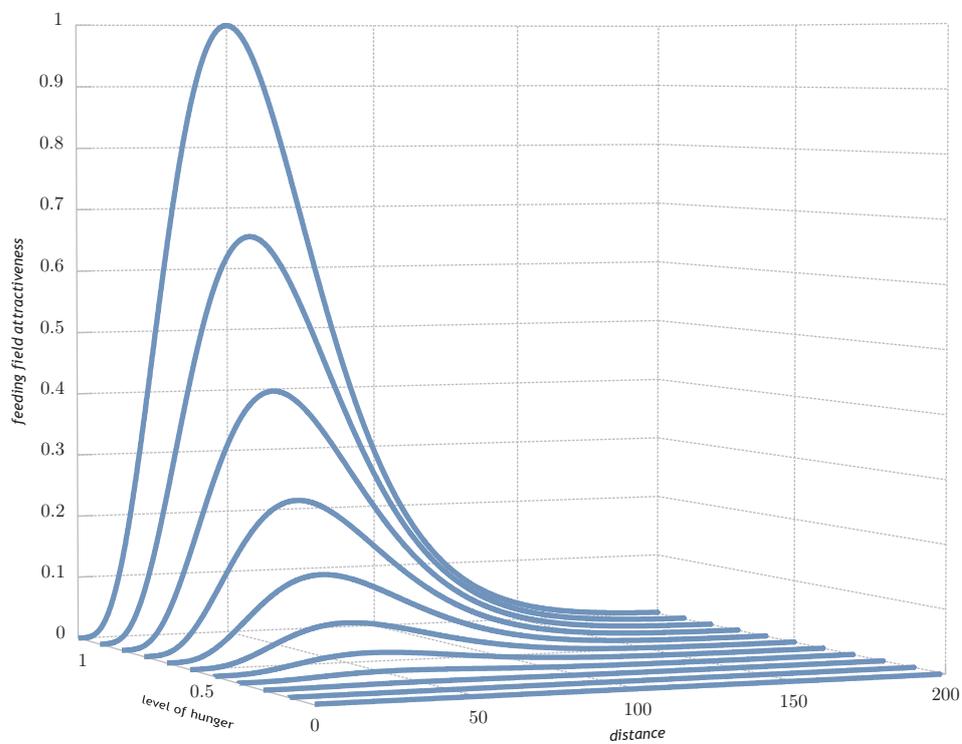


Figure 1. Use figures to show results.

4. Conclusion

finish by presenting some future research directions

References

- [1] I. Lebar Bajec, M. Mraz, Towards multi-state based computing using quantum-dot cellular automata, in: C. Teucher, A. Adamatzky (Eds.), *From Cellular Automata to Wetware*, Luniver Press, Beckington, 2005, pp. 95–104.
- [2] I. Lebar Bajec, N. Zimic, M. Mraz, The ternary quantum-dot cell and ternary logic, *Nanotechnology* 17 (8) (2006) 1937–1942.
- [3] I. Lebar Bajec, N. Zimic, M. Mraz, Towards the bottom-up concept: Extended quantum-dot cellular automata, *Microelectronic Engineering* 83 (4-9) (2006) 1826–1829.