

BornAgain - Documentation #2393

Core: inter-particle: improve example: Hexagonal lattices with basis: choose other correlation length, and explain things

31 Jul 2019 15:08 - wuttke

Status:	Backlog	Start date:	31 Jul 2019
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			

Description

The current correlation length is extremely small (1R). This is unrealistic; it obscures the Bragg rods from the 2D lattice; and it exacerbates the unphysical symmetry breaking. Let's choose a larger correlation length.

Expand the header comment to explain:

- that there is an unphysical symmetry breaking, and where it comes from;
- that there is a finite correlation length, what it is meant to represent, why it is needed, and what effects and problems are to be expected when smaller or larger values are chosen.

History

#1 - 18 Sep 2020 15:56 - wuttke

- Subject changed from Examples > Hexagonal lattices with basis: choose other correlation length, and explain things to Example: Hexagonal lattices with basis: choose other correlation length, and explain things

- Status changed from New to Backlog

#2 - 19 Sep 2020 10:20 - wuttke

- Subject changed from Example: Hexagonal lattices with basis: choose other correlation length, and explain things to Core: inter-particle: improve example: Hexagonal lattices with basis: choose other correlation length, and explain things