BornAgain - Refactoring #83

Performance: integration over angles

07 Sep 2012 15:18 - herck

Status:	Rejected		**Start date:**	07 Sep 2012
Priority:	Normal		**Due date:**	
Assignee:			**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:				

Description

As in the case of Elisabeth's sample, an integration is needed of rotations around the z-axis. Instead of doing this integration by selecting a large number of mesocrystals with different orientation, one could incorporate this into the selection of reciprocal lattice vectors and, at the same time, using an integrated formfactor for the mesocrystal.

For each detector cell, this would necessitate the evaluation of only a very limited number of form factors (this number depends on how many closeby reciprocal lattice point one wishes to retain).

History

#1 - 07 Sep 2012 15:20 - herck

- Description updated

#2 - 01 Aug 2014 17:07 - herck

- Status changed from Backlog to Rejected

Due to the multitude of form factors and the possible projection planes (which depend on particle rotations), this type of analytical integration can only be carried out for very specific cases, reducing the possible benefit of the approach.