

BornAgain - Bug #2380

Simulation failure for particles crossing interface

25 Jul 2019 14:40 - ganeva

Status:	Rejected	Start date:	25 Jul 2019
Priority:	Normal	Due date:	
Assignee:	herck	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
<p>I am not sure whether it is a bug or a feature. To reproduce the issue, create buried particles with broad size distribution. The broader is the size distribution, the more weird will be the SLD profile. GISAS simulation will fail with the message:</p> <pre>terminate called after throwing an instance of 'Exceptions::RuntimeException' what(): Error in runComputations: At least one simulation thread has terminated unexpectedly. Messages: DecouplingApproximationStrategy::scalarCalculation() -> Error! Amplitude is NaN -</pre>			

History

#1 - 30 Jul 2019 13:46 - herck

- Status changed from New to Rejected
- Assignee set to herck

This is not a bug. Log-normal distributions with sigma values as used in the script are extremely broad. For example, for sigma=10, the mean value is 5e21 times bigger than the median!

Files

Figure_4.png	22 KB	25 Jul 2019	ganeva
bug2.py	1.82 KB	25 Jul 2019	ganeva