

BornAgain - Feature #2415

Polarized: validate reflectivity against other software

20 Nov 2019 10:36 - dmitry

Status:	Backlog	Start date:	20 Nov 2019
Priority:	High	Due date:	
Assignee:	rbeerwerth	% Done:	0%
Category:	Reflectometry	Estimated time:	0.00 hour
Target version:			
Description			
<p>One needs to make sure that BornAgain produces the same result as other codes capable of polarized reflectivity. One can take GenX or Refl1D for comparison. Note that all the three codes differ in the input format for magnetic field and layer properties.</p> <p>The numerical stability of the polarized implementation can be probed by comparing it to a scalar computation with a modified SLD, according to the applied magnetic field. This applies to samples where the magnetic field is (anti)parallel to the polarization.</p>			
Related issues:			
Related to BornAgain - Envelope task #2419: Polarized - summary of tasks		In Progress	

History

#1 - 20 Nov 2019 10:48 - dmitry

- Description updated

#2 - 20 Nov 2019 13:57 - dmitry

- Related to Envelope task #2419: Polarized - summary of tasks added

#3 - 21 Nov 2019 11:49 - dmitry

- Priority changed from Normal to High

#4 - 03 Jun 2020 11:21 - rbeerwerth

- Description updated

#6 - 18 Sep 2020 23:31 - wuttke

- Subject changed from Cross-validate polarized reflectivity computations to Core: polarized: validate polarized reflectivity against other software

- Assignee set to rbeerwerth

#7 - 19 Sep 2020 09:08 - wuttke

- Subject changed from Core: polarized: validate polarized reflectivity against other software to Polarized: validate reflectivity against other software