

BornAgain - Refactoring #1766

Core: FF: Replace all form factors in sample creation by shapes

16 Feb 2017 13:58 - herck

Status:	Backlog	Start date:	16 Feb 2017
Priority:	Normal	Due date:	
Assignee:	wuttke	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
<p>A simple particle would then contain a shape and a material. Internally, the correct form factors, which still exist, would be generated during a computation. This would accomplish:</p> <ul style="list-style-type: none">• Clearer separation between particles' description and the underlying computations (as is mostly the case for all other objects)• No need for onChange(), since the shapes would be purely defined by their constructor arguments• The shape classes could be shared inside the GUI, allowing an unified generation of vertices for 3D view and some calculations• This shared description would then also allow easier implementation of support for 3D files describing a certain shape• Custom form factors can then also indicate their real space sizes to determine if they cross layer interfaces <p>For custom form factors in Python, a specific shape could be used that accepts a (overriden) form factor. This would also be the approach in case of shapes defined by some 3D file format.</p> <p>Related to #1567.</p>			
Related issues:			
Related to BornAgain - Refactoring #2457: Code organisation: facilitate sampl...		Backlog	18 May 2020
Related to BornAgain - Refactoring #2466: Use full paths in #include directives		Resolved	23 Jun 2020

History

#1 - 16 Feb 2017 13:59 - herck

- Description updated

#2 - 16 Feb 2017 14:26 - herck

- Description updated

#3 - 24 Jun 2020 15:30 - wuttke

- Related to Refactoring #2457: Code organisation: facilitate sample model API changes added

#4 - 24 Jun 2020 15:42 - wuttke

- Related to Refactoring #2466: Use full paths in #include directives added

#5 - 29 Jun 2020 07:54 - wuttke

- Status changed from Backlog to Sprint
- Assignee set to wuttke

Whether we call the form factors or shapes, is of secondary importance. The key point is to avoid duplication of classes. So I will merge classes FormFactorX and X for all X.

#6 - 18 Sep 2020 21:52 - wuttke

- Subject changed from Replace all form factors in sample creation by shapes to Core: FF: Replace all form factors in sample creation by shapes
- Status changed from Sprint to Backlog
- Priority changed from Normal to High

#7 - 21 Sep 2020 12:09 - wuttke

- Priority changed from High to Normal