BornAgain - Feature #437

Feature # 287 (Rejected): IntensityData campaign

Provide OutputData with ExportToNumpy function for PythonAPI

10 Oct 2013 16:06 - pospelov

Status:	Archived	**Start date:**	10 Oct 2013
Priority:	Low	**Due date:**	
Assignee:	pospelov	**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:	Sprint 17		

Description

This has to be discussed. We need some general approach to access OutputData in Python,
including the cases when OutputData contains 2x2 matrices.

Now we have an approach in C++:

- data = simulation->getOutputData()

in Python (way 1)

- numpy_data = GetOutputData(simulation)
- axis0 = GetOutputDataAxis(simulation,0)
- axis1 = GetOutputDataAxis(simulation,1)

in Python (way 2)

- data = simulation.getOutputData()

  i.e. C++ way kind of work, but iterators and all that business is broken

So we need common solution.

History

#1 - 10 Oct 2013 16:09 - pospelov

- Description updated

#2 - 10 Oct 2013 16:12 - pospelov

- Priority changed from Normal to High

#3 - 11 Oct 2013 13:47 - pospelov

- Status changed from New to Sprint

#4 - 11 Oct 2013 13:48 - pospelov

- Target version set to Sprint 17

#5 - 04 Nov 2013 11:31 - pospelov

- Description updated

- Assignee set to pospelov

#6 - 05 Nov 2013 12:09 - pospelov

- Status changed from Sprint to Resolved

Finally, in python we have IntensityData == OutputData<double> and couple of new functions defined

- simulation.getIntensityDaya().getArray() # will return numpy array
- simulation.getPolarizedOutputData(raw,column).getArray()

- All python use cases are updated

#7 - 15 Nov 2013 13:01 - pospelov

- Status changed from Resolved to Archived

#8 - 28 Apr 2015 18:59 - wuttke

- Priority changed from High to Low