

BornAgain - Feature #1620

Extend numpy support

19 Oct 2016 14:42 - pospelov

Status:	Archived	Start date:	19 Oct 2016
Priority:	Normal	Due date:	
Assignee:	pospelov	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	Sprint32		

Description

We do not have a convenient way to setup IntensityData object from Python, rather than using it's histogramming methods (::setBinContent, ::fill, etc). This makes importing of user data (if the data is in some unsupported format, like 'edf' or rare version of tiff) an uneasy task.

Consider the following:

- Implement FitSuite::setSimulationAndRealData(simulation, <numpy array>)
- Implement IHistogram::createFrom(<numpy array>)
- Implement IHistogram.setData(<numpy array>)

History

#1 - 07 Nov 2016 14:08 - jmfisher

See <https://docs.scipy.org/doc/numpy/reference/swig.interface-file.html> for numpy support in swig

#2 - 07 Nov 2016 15:18 - jmfisher

See also [sc-intern/technologies/python-bindings/swig/numpy](http://sc-intern.technologies/python-bindings/swig/numpy) for an example of automatic conversion numpy arras -> python list -> std::vector and conversely, using swig.

#3 - 08 Nov 2016 10:23 - pospelov

- Status changed from New to Sprint
- Assignee set to pospelov
- Target version set to Sprint32

Will quickly implement it, to simplify my tutorial's explanations.

#4 - 08 Nov 2016 17:44 - pospelov

- Status changed from Sprint to Resolved

#5 - 11 Nov 2016 14:48 - herck

- Status changed from Resolved to Archived