

BornAgain - Refactoring #1565

Feature # 1534 (Rejected): === Parameter handling ===

to associate units with parameters, use string instead of inheritance

03 Aug 2016 09:39 - wuttke

Status:	Archived	Start date:	03 Aug 2016
Priority:	Normal	Due date:	
Assignee:	wuttke	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	Sprint32		
Description			
<p>While implementing units-in-parameters using the inheritance approach, I learned that units can be undefined when parameters are created, and must allow to be modified later. For instance when generic distributions is used in a specific context, mean value and standard deviation get their unit from that context. Complicated things also happen with detector coordinates. Probably, at some point we will want to pass unit as a parameter. All this can be handled much better if <code>m_unit</code> is a member variable of <code>RealParameter</code>. Easiest if that variable is of type string, <code>m_unit = one of "", "nm", "rad"</code>. So I have to refactor, removing the inheritance mechanism implemented yesterday.</p>			

History

#1 - 03 Aug 2016 10:04 - wuttke

at this occasion, correct the limits for angles form +-90 or +-180 to +-PID2 or +-PI

#2 - 03 Aug 2016 14:05 - wuttke

- Parent task changed from #1290 to #1534

#3 - 04 Aug 2016 15:22 - wuttke

- Status changed from *Rfc* to *Sprint*

- Target version set to *Sprint32*

member variable of type string is perhaps not the best solution, but in any case a valid first approximation, and will allow us to implement the functionality we want

#4 - 17 Aug 2016 14:33 - wuttke

- Status changed from *Sprint* to *Resolved*

Resolved in 07c2106.

The unit name is wrapped in by class `Unit`.

Parameter registration now has chain form, e.g.

```
registerParameter(name, link).setUnit(string).setLimited(lower,upper).setFixed()
```

#5 - 11 Nov 2016 14:48 - herck

- Status changed from *Resolved* to *Archived*