

## BornAgain - Feature #1763

### Revise ParameterDistribution constructors and exceptions

01 Feb 2017 20:26 - pospelov

|  |           |                        |             |
|--|-----------|------------------------|-------------|
| <b>Status:</b>   | Resolved  | <b>Start date:</b>     | 01 Feb 2017 |
| <b>Priority:</b>   | Normal    | <b>Due date:</b>       |             |
| <b>Assignee:</b>   | pospelov  | <b>% Done:</b>         | 0%          |
| <b>Category:</b>   |           | <b>Estimated time:</b> | 0.00 hour   |
| <b>Target version:</b>   | Sprint 33 |                        |             |
| <b>Description</b>   |           |                        |             |
| This is about ParticleDistribution and its setup with ParameterDistribution in domain/python/gui.  |           |                        |             |
| <b>Problem No. 1</b>   |           |                        |             |
| Currently ParameterDistribution has two constructors   |           |                        |             |
| <ul style="list-style-type: none"><li>• to set the range via xmin, xmax</li><li>• to set the range via SigmaFactor and Reallimits</li></ul>  |           |                        |             |
| It is quite confusing, and it is not documented.   |           |                        |             |
| Can we get rid of one of constructors for the sake of clarity?   |           |                        |             |
| <ul style="list-style-type: none"><li>• Revise user example and explain at least in comments to Python code</li></ul>  |           |                        |             |
| <b>Problem No. 2</b>   |           |                        |             |
| <ul style="list-style-type: none"><li>• In GUI there is no way to select neither xmin, xmax not Reallimits</li><li>• This cause simulation failure, if parameter distribution produces negative value.</li><li>• Exception is caught, but explanation of what had happened, is absent (except our Houston we have a problem)</li></ul> |           |                        |             |
| <ul style="list-style-type: none"><li>• After solving problem No. 1, implement limits in GUI.</li></ul>  |           |                        |             |
| <b>Problem No. 3</b>   |           |                        |             |
| <ul style="list-style-type: none"><li>• Currently xmin, xmax, Reallimits, SigmaFactor are excluded from fittable parameters.</li><li>• Should it stay like that? We can easily fit them, if necessary.</li></ul>   |           |                        |             |

#### History

##### #1 - 03 Feb 2017 12:03 - pospelov

- Status changed from Backlog to Sprint

- Target version set to Sprint 33

Including in the sprint, since wrong setting cause GUI crash.

##### #2 - 06 Feb 2017 13:20 - pospelov

- Assignee set to pospelov

##### #3 - 13 Feb 2017 10:38 - pospelov

- Status changed from Sprint to Resolved