

BornAgain - by status

| # | Project | Priority | Tracker | Parent task | Subject | Assignee | Target version | % Done | Created | Author |
|-----------------|-----------|----------|---------------|--------------------------------------------------|---------------------------------------------------------------|----------|----------------|--------|-------------------|----------|
| Rfc (2) | | | | | | | | | | |
| 1569 | BornAgain | High | Refactoring | Envelope task #1566: == API changes == | rename hard particle form factors | | | 0 | 03 Aug 2016 13:53 | wuttke |
| 1750 | BornAgain | Normal | Feature | | Consider cleanup of Git repository to make it smaller in size | | | 0 | 19 Jan 2017 10:41 | pospelov |
| New (67) | | | | | | | | | | |
| 2339 | BornAgain | High | Feature | | Fitting: upon STOP, keep best fit | | | 0 | 16 Apr 2019 18:32 | wuttke |
| 1718 | BornAgain | Normal | Configuration | Feature #1361: == Win build == | Provide Windows installer with debug info in it | | | 0 | 02 Dec 2016 15:15 | pospelov |
| 1199 | BornAgain | Normal | Support | Envelope task #1406: == Particle correlations == | Consider implementation of partial structure factor | | | 0 | 06 Oct 2015 10:28 | pospelov |
| 2284 | BornAgain | Normal | Support | | Windows: python error when trying to plot. | | | 0 | 14 Jan 2019 16:19 | juan |
| 2345 | BornAgain | Normal | Testing | | Unit test for loading Reflectometry ASCII data | | | 0 | 07 May 2019 17:47 | juan |
| 1060 | BornAgain | Normal | Refactoring | Envelope task #1406: == Particle correlations == | refactor SSCA according to manual | | | 0 | 29 Apr 2015 17:33 | wuttke |
| 1578 | BornAgain | Normal | Refactoring | Envelope task #1566: == API changes == | reimplement ripples as Cartesian product Profile * Decay | | | 0 | 08 Aug 2016 16:01 | wuttke |
| 1685 | BornAgain | Normal | Refactoring | Feature #1572: == Python == | Restrict Python API to what the user needs. | | | 0 | 28 Nov 2016 14:31 | wuttke |
| 1893 | BornAgain | Normal | Refactoring | | GUI: provide uniform splitters where possible | | | 0 | 14 Nov 2017 11:43 | pospelov |
| 2011 | BornAgain | Normal | Refactoring | | API changes to access the simulation results | | | 0 | 14 Mar 2018 17:44 | ganeva |
| 2369 | BornAgain | Normal | Refactoring | | rename ThirdParty/Fit/RootMinimizers | | | 0 | 19 May 2019 18:51 | wuttke |
| 2386 | BornAgain | Normal | Refactoring | | why not "ISimulation" instead of "Simulation"? | | | 0 | 31 Jul 2019 10:31 | wuttke |
| 2387 | BornAgain | Normal | Refactoring | | Rename "OffSpecularConverter" | | | 0 | 31 Jul 2019 10:35 | wuttke |
| 2390 | BornAgain | Normal | Refactoring | | Revise and document CreateDataImpl | | | 0 | 31 Jul 2019 11:36 | wuttke |
| 2391 | BornAgain | Normal | Refactoring | | Move builder classes out of Core or to dedicated namespace | | | 0 | 31 Jul 2019 12:13 | wuttke |

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|------|-----------|----------|---------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------|----------------|--------|-------------------|----------|
| 983 | BornAgain | Normal | Documentation | Documentation #976: Derive scalar and polarized wave equation for both X-rays and neutrons, and choose appropriate notation. | Integrate SpecularReflectivity note into the User Manual. | | | 0 | 20 Feb 2015 11:24 | wuttke |
| 1710 | BornAgain | Normal | Documentation | Envelope task #966: === Theory & Manual === | Manual: explain particle density | wuttke | | 0 | 01 Dec 2016 17:41 | wuttke |
| 1752 | BornAgain | Normal | Documentation | | Create tutorial about multiple particle layouts. | | | 0 | 19 Jan 2017 11:17 | pospelov |
| 2349 | BornAgain | Normal | Documentation | | Beam divergence example: use sample with highly structured GISAS pattern, and show effect of beam divergence | | | 0 | 10 May 2019 14:47 | wuttke |
| 2385 | BornAgain | Normal | Documentation | | Doxygen > User API > group Simulation: too crowded, break into subgroups | | | 0 | 31 Jul 2019 10:27 | wuttke |
| 2392 | BornAgain | Normal | Documentation | | Provide Doxygen class comments for recently added classes | dmitry | | 0 | 31 Jul 2019 14:09 | wuttke |
| 2393 | BornAgain | Normal | Documentation | | Examples > Hexagonal lattices with basis: choose other correlation length, and explain things | | | 0 | 31 Jul 2019 15:08 | wuttke |
| 1082 | BornAgain | Normal | Feature | Feature #964: === GUI === | GUI: provide unddo/redo functionality | | | 0 | 12 May 2015 16:07 | pospelov |
| 1103 | BornAgain | Normal | Feature | Envelope task #1119: == Reflectivity == | extend simulation to transmission geometry (detector images with z<0) | | | 0 | 12 Jun 2015 17:57 | wuttke |
| 1214 | BornAgain | Normal | Feature | Feature #1688: == Roughness == | Provide LayerRoughness with a method representing roughness profile in real space | | | 0 | 19 Oct 2015 13:03 | pospelov |
| 1504 | BornAgain | Normal | Feature | Feature #964: === GUI === | GUI: support standard control keys | | | 0 | 12 Jul 2016 09:30 | wuttke |
| 1506 | BornAgain | Normal | Feature | Feature #964: === GUI === | GUI Sample Tree View: cut / paste or move to be added to right-click popup menu | | | 0 | 12 Jul 2016 10:14 | wuttke |
| 1507 | BornAgain | Normal | Feature | Feature #964: === GUI === | GUI: SHIFT+LeftClick should add to selection | | | 0 | 12 Jul 2016 11:34 | wuttke |
| 1666 | BornAgain | Normal | Feature | Feature #1572: == Python == | Constructor of Histogram2D should accept also numpy arrays with dtype=int | | | 0 | 24 Nov 2016 09:57 | ganeva |
| 1697 | BornAgain | Normal | Feature | Feature #1714: == Enhance functionality == | Save/load detector mask | | | 0 | 01 Dec 2016 14:06 | wuttke |
| 1698 | BornAgain | Normal | Feature | Feature #964: === GUI === | GUI: save/load detector mask | | | 0 | 01 Dec 2016 14:07 | wuttke |

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|------|-----------|----------|---------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------|----------------|--------|-------------------|---------------|
| 1704 | BornAgain | Normal | Feature | Feature #284: === Fit === | Revise chi squared module | | | 0 | 01 Dec 2016 14:38 | wuttke |
| 1716 | BornAgain | Normal | Feature | Envelope task #1566: == API changes == | GISASSimulation::setBeamParameter: default value 0 for third parameter phi_i | | | 0 | 02 Dec 2016 14:41 | wuttke |
| 1754 | BornAgain | Normal | Feature | | Investigate fitting with Log-Likelihood | | | 0 | 19 Jan 2017 12:30 | pospelov |
| 1755 | BornAgain | Normal | Feature | | GUI: provide additional command line parameter to open existing projects | | | 0 | 19 Jan 2017 12:32 | pospelov |
| 1771 | BornAgain | Normal | Feature | | GUI: create FitProjectionsWidget to compare projections of real .vs. simulated data | | | 0 | 24 Feb 2017 14:30 | pospelov |
| 1773 | BornAgain | Normal | Feature | | GUI: implement a ruler for ProjectionsEditor | | | 0 | 24 Feb 2017 14:33 | pospelov |
| 1864 | BornAgain | Normal | Feature | | GUI: provide option to export citation | | | 0 | 20 Oct 2017 11:58 | ganeva |
| 2232 | BornAgain | Normal | Feature | | GUI: provide units in tooltips | | | 0 | 23 Nov 2018 13:31 | ganeva |
| 2254 | BornAgain | Normal | Feature | | Proposal about uniform units of measurement | | | 0 | 10 Dec 2018 17:29 | Uliana_Koneva |
| 2320 | BornAgain | Normal | Feature | | GUI: save project should save also the Python script | | | 0 | 05 Mar 2019 09:51 | ganeva |
| 2340 | BornAgain | Normal | Feature | | Fitting: to facilitate switch between minimizers, change handling of minimizers. | | | 0 | 16 Apr 2019 18:39 | wuttke |
| 2341 | BornAgain | Normal | Feature | | GUI: personal material library | | | 0 | 18 Apr 2019 13:53 | ganeva |
| 2350 | BornAgain | Normal | Feature | | Start material editor without scroll bars, and automatically center dropped sample models | | | 0 | 13 May 2019 11:16 | wuttke |
| 2353 | BornAgain | Normal | Feature | | Add "View" to mainwindow menu bar, and replace right-click menu with something context specific. | | | 0 | 13 May 2019 13:02 | wuttke |
| 2358 | BornAgain | Normal | Feature | Envelope task #2357: Reflectometry units should be angstroms. | Save/read reflectometry data/simulation in consistent units | | | 0 | 14 May 2019 12:04 | juan |
| 2359 | BornAgain | Normal | Feature | Envelope task #2357: Reflectometry units should be angstroms. | Plot x-axis units in Angstroms for Reflectometry | | | 0 | 14 May 2019 12:08 | juan |
| 2366 | BornAgain | Normal | Feature | | GUI: move Import1D/2D buttons to "File" menu | | | 0 | 17 May 2019 14:38 | wuttke |
| 2367 | BornAgain | Normal | Feature | | GUI: "Layers" section incorrectly suggests choice between "MultiLayer" and "Layer" | | | 0 | 17 May 2019 14:55 | wuttke |
| 2368 | BornAgain | Normal | Feature | | GUI>Simulation: decouple setup editor from action buttons | | | 0 | 17 May 2019 15:26 | wuttke |
| 2394 | BornAgain | Normal | Feature | | Finite lattices: shape must not be defined in multiples of base vectors | | | 0 | 31 Jul 2019 16:26 | wuttke |
| 2407 | BornAgain | Normal | Feature | | Add q-space coordinates for Off-Specular simulations results | | | 0 | 25 Sep 2019 09:20 | juan |

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|------|-----------|----------|---------|---------------------------|---------------------------------------------------------------------------------------------|----------|----------------|--------|-------------------|---------------|
| 1901 | BornAgain | Normal | Bug | | warnings from Gtk | | | 0 | 19 Nov 2017 13:35 | wuttke |
| 2034 | BornAgain | Normal | Bug | | Formfactor Icosahedron crosses interface boundary | | | 0 | 13 Apr 2018 08:55 | ganeva |
| 2251 | BornAgain | Normal | Bug | | BornAgain. The ordinate (y) scale of graph "Iteration" incorrect display. | | | 0 | 10 Dec 2018 15:27 | Uliana_Koneva |
| 2253 | BornAgain | Normal | Bug | | BornAgain. The "Fit parameters" window is incorrectly displayed | | | 0 | 10 Dec 2018 16:57 | Uliana_Koneva |
| 2255 | BornAgain | Normal | Bug | | Program crash during fitting | | | 0 | 11 Dec 2018 16:28 | Uliana_Koneva |
| 2332 | BornAgain | Normal | Bug | | Appearance of artifacts on real data during work | | | 0 | 26 Mar 2019 14:26 | Uliana_Koneva |
| 2356 | BornAgain | Normal | Bug | | Undefined state in Instrument > Polarization analysis > Analyzer orientation and efficiency | | | 0 | 13 May 2019 18:33 | wuttke |
| 2362 | BornAgain | Normal | Bug | | GUI: can neither quit, nor cancel an endless job | | | 0 | 17 May 2019 13:45 | wuttke |
| 2363 | BornAgain | Normal | Bug | | GUI overrides user choice - specifically, the detector coordinate unit | | | 0 | 17 May 2019 13:52 | wuttke |
| 2364 | BornAgain | Normal | Bug | | GUI: feedback on running background job is out of field of vision | | | 0 | 17 May 2019 14:00 | wuttke |
| 2402 | BornAgain | Normal | Bug | | Crash on reflectometry "link instrument" for negative values of Q data | | | 0 | 05 Sep 2019 15:41 | juan |
| 1129 | BornAgain | Low | Feature | Feature #964: === GUI === | GUI: "Sample" tab is not synchronised with "Jobs" tab | | | 0 | 14 Jul 2015 14:37 | sbusch |
| 1927 | BornAgain | Low | Feature | | Investigate performance of InterferenceFunction2DParaCrystal::interference1D method | | | 0 | 18 Dec 2017 14:58 | pospelov |
| 2360 | BornAgain | Low | Feature | | 3DView: Provide button to save video | | | 0 | 14 May 2019 17:19 | juan |
| 1781 | BornAgain | Low | Bug | | Fix thisbornagain.sh to correctly drop from path previous BornAgain installation. | | | 0 | 22 Mar 2017 14:59 | pospelov |

Sprint (6)

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|------|-----------|--------|---------------|--|--------------------------------------------------------|-------|-----------|---|-------------------|----------|
| 2354 | BornAgain | Urgent | Bug | | Nontrivial scattering pattern at zero contrast | | | 0 | 13 May 2019 15:54 | wuttke |
| 2357 | BornAgain | Normal | Envelope task | | Reflectometry units should be angstroms. | | | 0 | 14 May 2019 11:57 | juan |
| 2276 | BornAgain | Normal | Support | | Provide simulation of mpnc sample for DESY | | | 0 | 10 Jan 2019 09:18 | pospelov |
| 2299 | BornAgain | Normal | Feature | | Investigate form factor of a cylinder sector | herck | | 0 | 11 Feb 2019 10:13 | herck |
| 2397 | BornAgain | Normal | Feature | | Create user example for superlattice | | Sprint 42 | 0 | 02 Aug 2019 16:25 | pospelov |
| 2348 | BornAgain | Normal | Bug | | In python examples, enforce color coding of our choice | | | 0 | 10 May 2019 14:44 | wuttke |

In Progress (8)

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|------|-----------|--------|---------------|--|-----------------|--|--|----|-------------------|--------|
| 1438 | BornAgain | Urgent | Envelope task | | === Physics === | | | 80 | 30 May 2016 16:08 | wuttke |
|------|-----------|--------|---------------|--|-----------------|--|--|----|-------------------|--------|

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|------|-----------|----------|---------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------|----------|----------------|--------|-------------------|--------|
| 1119 | BornAgain | High | Envelope task | Envelope task #1438: === Physics === | == Reflectivity == | | | 67 | 02 Jul 2015 10:18 | herck |
| 1406 | BornAgain | High | Envelope task | Envelope task #1438: === Physics === | == Particle correlations == | | | 36 | 13 Apr 2016 18:29 | wuttke |
| 1566 | BornAgain | High | Envelope task | Feature #1290: === Core: framework === | == API changes == | | | 67 | 03 Aug 2016 10:25 | wuttke |
| 2314 | BornAgain | High | Envelope task | | Requirements from ESS instrument scientists for reflectometry in BornAgain | | | 0 | 04 Mar 2019 13:01 | dmitry |
| 966 | BornAgain | Normal | Envelope task | | === Theory & Manual === | | | 62 | 17 Feb 2015 10:34 | wuttke |
| 1602 | BornAgain | Normal | Envelope task | Feature #418: === Configuration & Build === | == CMake configuration, dependences == | | | 71 | 03 Sep 2016 13:43 | wuttke |
| 976 | BornAgain | Normal | Documentation | Envelope task #966: === Theory & Manual === | Derive scalar and polarized wave equation for both X-rays and neutrons, and choose appropriate notation. | wuttke | | 0 | 18 Feb 2015 16:26 | wuttke |

Backlog (167)

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|------|-----------|--------|---------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------|--|---|-------------------|----------|
| 1677 | BornAgain | High | Feature | Feature #1688: == Roughness == | Independent roughness cross-correlation for disjoint sets of interfaces | | | 0 | 25 Nov 2016 11:33 | ganeva |
| 2302 | BornAgain | High | Feature | | Provide form factor for hexagon-based twisted pyramid | ganeva | | 0 | 13 Feb 2019 14:06 | ganeva |
| 2025 | BornAgain | High | Bug | | Slicing machinery makes mesocrystal simulation very slow | | | 0 | 03 Apr 2018 16:48 | pospelov |
| 1175 | BornAgain | Normal | Configuration | Feature #1363: == Unix build == | Provide official debian package | | | 0 | 03 Sep 2015 09:59 | ganeva |
| 1615 | BornAgain | Normal | Configuration | Feature #418: === Configuration & Build === | in each third-party source directory, provide information about used download location, download date, and downloaded version | | | 0 | 13 Oct 2016 14:13 | wuttke |
| 1640 | BornAgain | Normal | Configuration | Feature #1686: == Release procedures and pre-release actions == | Doxygen generation on apps server not compatible anymore with links to API | | | 0 | 15 Nov 2016 12:19 | herck |
| 2216 | BornAgain | Normal | Configuration | | Remove stgz extension in BornAgainCPack.cmake | | | 0 | 06 Nov 2018 15:43 | herck |
| 2020 | BornAgain | Normal | Testing | | Provide a set of tests for checking simulation results' reproducibility in the case of simulation re-run | | | 0 | 21 Mar 2018 13:57 | dmitry |
| 2121 | BornAgain | Normal | Testing | | Consider using mutation testing | | | 0 | 24 Jul 2018 14:37 | herck |
| 2133 | BornAgain | Normal | Testing | | Create functional test for sliced centered fullsphere | | | 0 | 31 Jul 2018 13:22 | herck |

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|------|-----------|----------|-------------|-------------------------------------------------------------|--------------------------------------------------------------------------------|----------|----------------|--------|-------------------|----------|
| 2309 | BornAgain | Normal | Testing | | Provide more test coverage of multilayer slicing machinery | | | 0 | 28 Feb 2019 09:52 | herck |
| 409 | BornAgain | Normal | Refactoring | Feature #1712: == Code maintenance == | Remove duplicate functions "evaluate" and "evaluatePol" | | | 0 | 25 Sep 2013 11:12 | herck |
| 1089 | BornAgain | Normal | Refactoring | Feature #1712: == Code maintenance == | Refactor interface of evaluate(pol) of Form Factors | | | 0 | 21 May 2015 13:45 | herck |
| 1476 | BornAgain | Normal | Refactoring | Envelope task #1602: == CMake configuration, dependences == | Revise installation directory structure under Linux | | | 0 | 22 Jun 2016 13:57 | ganeva |
| 1493 | BornAgain | Normal | Refactoring | Feature #964: === GUI === | GUI: Implement tranform from domain for fitting objects | | | 0 | 01 Jul 2016 13:50 | pospelov |
| 1494 | BornAgain | Normal | Refactoring | Feature #964: === GUI === | GUI: Implement export of fitting setup to python script. | | | 0 | 01 Jul 2016 13:50 | pospelov |
| 1495 | BornAgain | Normal | Refactoring | Feature #964: === GUI === | GUI: extend GUISuite functional test machinery with standard fits | | | 0 | 01 Jul 2016 13:50 | pospelov |
| 1731 | BornAgain | Normal | Refactoring | | Reduce number of TODOs in code | | | 0 | 07 Dec 2016 14:54 | herck |
| 1766 | BornAgain | Normal | Refactoring | | Replace all form factors in sample creation by shapes | | | 0 | 16 Feb 2017 13:58 | herck |
| 1775 | BornAgain | Normal | Refactoring | | Check pyramid like shapes for angles > 90 degrees | | | 0 | 08 Mar 2017 14:13 | herck |
| 1887 | BornAgain | Normal | Refactoring | | Switch to new signal/slot mechanism in Qt (since c++11) | | | 0 | 10 Nov 2017 16:40 | herck |
| 1918 | BornAgain | Normal | Refactoring | | Revise IHistogram class family | | | 0 | 06 Dec 2017 09:55 | dmitry |
| 1990 | BornAgain | Normal | Refactoring | | Remove duplicate type definitions in BornAgainNamespace.h and item_constants.h | | | 0 | 28 Feb 2018 14:08 | herck |
| 2050 | BornAgain | Normal | Refactoring | | Remove dependence of SessionModel::copyItem on XML serialization | | | 0 | 14 May 2018 18:24 | herck |
| 2052 | BornAgain | Normal | Refactoring | | Consider switching to C++17 | | | 0 | 17 May 2018 10:15 | dmitry |
| 2093 | BornAgain | Normal | Refactoring | | GUI: create prototype of universal 1D, 2D plot machinery | | | 0 | 20 Jun 2018 09:26 | pospelov |
| 2109 | BornAgain | Normal | Refactoring | | Refactor 1D and 2D plotting | | | 0 | 12 Jul 2018 09:57 | pospelov |
| 2120 | BornAgain | Normal | Refactoring | | Let decay functions calculate the minimum and maximum values of q to use | | | 0 | 24 Jul 2018 12:19 | herck |
| 2130 | BornAgain | Normal | Refactoring | | Reduce the number of possible ways to access data through SimulationResult | | | 0 | 30 Jul 2018 16:42 | dmitry |
| 2211 | BornAgain | Normal | Refactoring | | Refactor fit progress/fit comparison widgets | | | 0 | 26 Oct 2018 12:41 | pospelov |
| 2234 | BornAgain | Normal | Refactoring | | Simplify minimizer constructor | | | 0 | 29 Nov 2018 09:59 | pospelov |

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|------|-----------|----------|---------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------|----------------|--------|-------------------|----------|
| 2240 | BornAgain | Normal | Refactoring | | Refactor unit convertor construction in InstrumentItem | | | 0 | 03 Dec 2018 14:12 | pospelov |
| 2241 | BornAgain | Normal | Refactoring | | Replace DoubleEditor and ScientificDoublePropertyEditor with ScientificSpinBox | | | 0 | 05 Dec 2018 13:23 | dmitry |
| 2242 | BornAgain | Normal | Refactoring | | Provide common interface of handling mean/center/median value in distributions | | | 0 | 05 Dec 2018 13:45 | dmitry |
| 2275 | BornAgain | Normal | Refactoring | | Refactor cmake machinery for consistent Python interpreter/libraries handling | | | 0 | 09 Jan 2019 11:42 | pospelov |
| 2376 | BornAgain | Normal | Refactoring | | Look for an alternative to root minimizers | | | 0 | 05 Jun 2019 13:14 | dmitry |
| 2405 | BornAgain | Normal | Refactoring | | Simplify IterationStrategy and related classes | | | 0 | 23 Sep 2019 14:21 | dmitry |
| 330 | BornAgain | Normal | Documentation | Documentation #1102: review normalization, especially in view of finite sample extension, finite beam width, and small glancing angles | Take care of kz=0 case appropriately | | | 0 | 17 Jul 2013 11:19 | herck |
| 387 | BornAgain | Normal | Documentation | Documentation #976: Derive scalar and polarized wave equation for both X-rays and neutrons, and choose appropriate notation. | Provide correct calculation of detected intensity for polarization | | | 0 | 04 Sep 2013 11:17 | herck |
| 726 | BornAgain | Normal | Documentation | Documentation #983: Integrate SpecularReflectivity note into the User Manual. | Review calculation of R,T coefficients for magnetic case | | | 0 | 09 Jul 2014 10:27 | herck |
| 840 | BornAgain | Normal | Documentation | Feature #861: === Website & Examples === | Create movie with first GUI tutorial | | | 0 | 17 Oct 2014 16:27 | pospelov |
| 1014 | BornAgain | Normal | Documentation | Envelope task #966: === Theory & Manual === | Manual: describe simulation with distributed parameters | | | 0 | 19 Mar 2015 10:00 | pospelov |
| 1102 | BornAgain | Normal | Documentation | Envelope task #966: === Theory & Manual === | review normalization, especially in view of finite sample extension, finite beam width, and small glancing angles | | | 0 | 12 Jun 2015 17:51 | wuttke |
| 1135 | BornAgain | Normal | Documentation | Envelope task #966: === Theory & Manual === | Manual: describe core shell particles | | | 0 | 15 Jul 2015 17:29 | pospelov |

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| 1141 | BornAgain | Normal | Documentation | Envelope task #966: === Theory & Manual === | Manual: describe multi layers | | | 30 | 20 Jul 2015 09:24 | pospelov |
| 1414 | BornAgain | Normal | Documentation | Feature #1287: == Particle form factors == | regenerate form factor images in manual | | | 0 | 19 Apr 2016 11:34 | wuttke |
| 1971 | BornAgain | Normal | Documentation | | Provide description of fitting engines' options | | | 0 | 21 Feb 2018 11:26 | dmitry |
| 1999 | BornAgain | Normal | Documentation | | Cleanup redmine wiki | | | 50 | 07 Mar 2018 10:41 | pospelov |
| 2003 | BornAgain | Normal | Documentation | | Website: integrate doxygen generated API to Hugo | | | 0 | 09 Mar 2018 08:49 | pospelov |
| 2004 | BornAgain | Normal | Documentation | | Website: style doxygen generated API to the new website | | | 0 | 09 Mar 2018 08:50 | pospelov |
| 2013 | BornAgain | Normal | Documentation | | Provide example project file with 'real' data and web tutorial using this | | | 0 | 16 Mar 2018 10:11 | herck |
| 2077 | BornAgain | Normal | Documentation | | Update ParticleDistribution tutorial | | | 0 | 13 Jun 2018 16:44 | pospelov |
| 2087 | BornAgain | Normal | Documentation | | Website: provide "description" and "keywords" meta information | | | 0 | 14 Jun 2018 17:35 | pospelov |
| 2088 | BornAgain | Normal | Documentation | | Website: remove links to external css | | | 0 | 14 Jun 2018 17:37 | pospelov |
| 2144 | BornAgain | Normal | Documentation | | Add information on website for graded layer approximation | | | 0 | 12 Sep 2018 12:53 | herck |
| 2158 | BornAgain | Normal | Documentation | | Extend website with nightly builds to accomodate for early testers | | | 0 | 19 Sep 2018 13:56 | herck |
| 2185 | BornAgain | Normal | Documentation | | Explain peculiarities of matplotlib usage on MacOS | | | 0 | 04 Oct 2018 11:45 | pospelov |
| 2250 | BornAgain | Normal | Documentation | | Fix doxygen documentation | | | 0 | 10 Dec 2018 12:12 | dmitry |
| 2398 | BornAgain | Normal | Documentation | | Create user example for batch processing | | | 0 | 05 Aug 2019 11:34 | pospelov |
| 2399 | BornAgain | Normal | Documentation | | Create user example for OpenMPI processing | | | 0 | 05 Aug 2019 11:35 | pospelov |
| 697 | BornAgain | Normal | Feature | Envelope task #1406: == Particle correlations == | Use Monte Carlo integration over all incoherent parameters | | | 0 | 04 Jun 2014 12:44 | herck |
| 907 | BornAgain | Normal | Feature | Envelope task #1406: == Particle correlations == | Create MesoCrystal tutorial | | | 0 | 27 Nov 2014 15:59 | pospelov |
| 1068 | BornAgain | Normal | Feature | Feature #964: === GUI === | SLD profile in Sample builder | | | 100 | 08 May 2015 19:55 | a.glavic |
| 1229 | BornAgain | Normal | Feature | Feature #1362: == Mac build == | MacOS: create BornAgain "tap" and "formula" for Homebrew | | | 0 | 02 Nov 2015 16:54 | pospelov |
| 1612 | BornAgain | Normal | Feature | Envelope task #1119: == Reflectivity == | Specular peak: add forward scattering amplitudes to specular amplitude | | | 0 | 06 Oct 2016 11:26 | herck |

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| 1619 | BornAgain | Normal | Feature | Feature #1714: == Enhance functionality == | Implement support of comma separated ASCII data in IntensityDataIOFactory::readOutputData | | | 0 | 19 Oct 2016 14:15 | pospelov |
| 1751 | BornAgain | Normal | Feature | Envelope task #1602: == CMake configuration, dependences == | CMake machinery should warn if there are traces of previous BornAgain installation | | | 0 | 19 Jan 2017 10:53 | pospelov |
| 1805 | BornAgain | Normal | Feature | | Investigate the usage of Python external packages (fabio, periodictable) from GUI | | | 0 | 11 May 2017 11:53 | pospelov |
| 1817 | BornAgain | Normal | Feature | | Provide an easy way of importing instrument definitions and real data into the GUI | | | 0 | 12 Jun 2017 14:57 | herck |
| 1847 | BornAgain | Normal | Feature | | Implement IFactory with constructor parameters | | | 0 | 29 Sep 2017 16:30 | pospelov |
| 1873 | BornAgain | Normal | Feature | | Consider incoherent scattering | | | 0 | 27 Oct 2017 14:23 | ganeva |
| 1877 | BornAgain | Normal | Feature | | Revise Utils, Helper, Assistant and Functions usage in file names | | | 0 | 02 Nov 2017 17:31 | pospelov |
| 1920 | BornAgain | Normal | Feature | | Adapt BornAgain GUI for 4k displays | | | 0 | 07 Dec 2017 11:51 | pospelov |
| 1950 | BornAgain | Normal | Feature | | Investigate hdf5 as default format for BornAgain data files | | | 0 | 29 Jan 2018 11:17 | pospelov |
| 1972 | BornAgain | Normal | Feature | | GUI: provide beam divergence for OffSpec instrument | | | 0 | 21 Feb 2018 11:30 | pospelov |
| 1988 | BornAgain | Normal | Feature | | Propagate best fit parameter values to parameter tree and fit parameter list | | | 0 | 28 Feb 2018 11:53 | herck |
| 1992 | BornAgain | Normal | Feature | | Revise RealTimeView | | | 0 | 28 Feb 2018 16:18 | pospelov |
| 1994 | BornAgain | Normal | Feature | | Enable automatic conversion of parameter values/limits between GUI and Core (enabling angle fit parameters) | | | 0 | 01 Mar 2018 16:12 | herck |
| 2000 | BornAgain | Normal | Feature | | Use rpath in Linux installation for our own binaries | | | 0 | 07 Mar 2018 13:16 | pospelov |
| 2046 | BornAgain | Normal | Feature | | Provide defense against running Python script with wrong version of Python interpreter | | | 0 | 03 May 2018 12:08 | pospelov |
| 2056 | BornAgain | Normal | Feature | | Restore MaterialPropertyController | | | 0 | 24 May 2018 12:41 | pospelov |
| 2058 | BornAgain | Normal | Feature | | Implement error estimate for poisson-distributed real data | | | 0 | 24 May 2018 17:17 | dmitry |
| 2065 | BornAgain | Normal | Feature | | Enable roi for off-specular instrument | | | 0 | 29 May 2018 15:26 | dmitry |
| 2066 | BornAgain | Normal | Feature | | Cleanup dmg installer from unnecessary Qt libraries | | | 0 | 30 May 2018 17:53 | pospelov |
| 2067 | BornAgain | Normal | Feature | | Expand functionality of python-side plotting utils for reflectometry | | | 0 | 03 Jun 2018 23:57 | dmitry |
| 2085 | BornAgain | Normal | Feature | | 3D view: move time consuming operations in a thread | | | 0 | 14 Jun 2018 14:24 | pospelov |
| 2086 | BornAgain | Normal | Feature | | GUI: introduce extended distribution editor for ParticleDistributionItem | | | 0 | 14 Jun 2018 14:25 | pospelov |

| # | Project | Priority | Tracker | Parent task | Subject | Assignee | Target version | % Done | Created | Author |
|------|-----------|----------|---------|-------------|-----------------------------------------------------------------------------------|----------|----------------|--------|-------------------|----------|
| 2094 | BornAgain | Normal | Feature | | Remove restrictions (absence of magnetic scattering) for all IComputations | | | 0 | 20 Jun 2018 11:54 | herck |
| 2112 | BornAgain | Normal | Feature | | Boost: remove program_options dependency | | | 0 | 12 Jul 2018 11:29 | pospelov |
| 2114 | BornAgain | Normal | Feature | | Boost: remove iostreams dependency | | | 0 | 12 Jul 2018 11:29 | pospelov |
| 2115 | BornAgain | Normal | Feature | | Boost: remove filesystem dependency | | | 0 | 12 Jul 2018 11:30 | pospelov |
| 2117 | BornAgain | Normal | Feature | | Provide buildbot configuration to test "make install" in user directory | | | 0 | 19 Jul 2018 14:10 | pospelov |
| 2126 | BornAgain | Normal | Feature | | Make default fit observer for specular simulations work with several data sets | | | 0 | 30 Jul 2018 10:28 | dmitry |
| 2145 | BornAgain | Normal | Feature | | Enable different axis units for plots in FitObserver | | | 0 | 12 Sep 2018 14:40 | herck |
| 2157 | BornAgain | Normal | Feature | | Implement silver behenate example | | | 0 | 19 Sep 2018 13:35 | pospelov |
| 2159 | BornAgain | Normal | Feature | | Improve 3D view appearance when particle size is large | | | 0 | 19 Sep 2018 15:11 | pospelov |
| 2160 | BornAgain | Normal | Feature | | Consider mask editor to be invoked from instrument view | | | 0 | 19 Sep 2018 16:06 | pospelov |
| 2164 | BornAgain | Normal | Feature | | Import edf format for scattering data | | | 0 | 20 Sep 2018 15:06 | herck |
| 2191 | BornAgain | Normal | Feature | | Provide python example for lamellar structure | | | 0 | 08 Oct 2018 11:14 | pospelov |
| 2197 | BornAgain | Normal | Feature | | 3DView: provide default selection of MultiLayer on 3DView open | | | 0 | 12 Oct 2018 16:39 | pospelov |
| 2202 | BornAgain | Normal | Feature | | GUI highdpi: replace remaining png icons with their svg versions | | | 0 | 18 Oct 2018 13:34 | pospelov |
| 2203 | BornAgain | Normal | Feature | | GUI highdpi: refactor FancyTabWidget to account for high dpi monitors | | | 0 | 18 Oct 2018 13:35 | pospelov |
| 2204 | BornAgain | Normal | Feature | | GUI highdpi: switch mainwindow to highdpi mode on Linux by default | | | 0 | 18 Oct 2018 13:39 | pospelov |
| 2205 | BornAgain | Normal | Feature | | Replace difference plot in fitobserver with the true metric used for minimization | | | 0 | 18 Oct 2018 13:47 | herck |
| 2209 | BornAgain | Normal | Feature | | Provide fitting example using bumps minimizer | | | 0 | 24 Oct 2018 17:47 | pospelov |
| 2215 | BornAgain | Normal | Feature | | Implement other variant for 2d lattice iff | | | 0 | 06 Nov 2018 09:48 | herck |
| 2221 | BornAgain | Normal | Feature | | Update opt_local.zip file with external dependencies for Windows build | | | 0 | 13 Nov 2018 17:35 | pospelov |
| 2226 | BornAgain | Normal | Feature | | GUI highdpi: provide common access to scale factor | | | 0 | 16 Nov 2018 12:50 | pospelov |
| 2227 | BornAgain | Normal | Feature | | GUI highdpi: fix Windows scaling issues | | | 0 | 16 Nov 2018 12:50 | pospelov |
| 2238 | BornAgain | Normal | Feature | | Get rid of "Linked_instrument" in import tab | | | 0 | 30 Nov 2018 19:40 | dmitry |
| 2244 | BornAgain | Normal | Feature | | Implement export of DepthProbeInstrument to Python | | | 0 | 06 Dec 2018 10:55 | pospelov |
| 2261 | BornAgain | Normal | Feature | | Provide tooltip for project file name | | | 0 | 19 Dec 2018 08:22 | pospelov |

| # | Project | Priority | Tracker | Parent task | Subject | Assignee | Target version | % Done | Created | Author |
|------|-----------|----------|---------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------|----------------|--------|-------------------|----------|
| 2263 | BornAgain | Normal | Feature | | GUI: provide immediate canceling of running job | | | 0 | 19 Dec 2018 17:50 | pospelov |
| 2264 | BornAgain | Normal | Feature | | GUI: property panel of intensity data is too narrow on some systems | | | 0 | 19 Dec 2018 17:54 | pospelov |
| 2266 | BornAgain | Normal | Feature | | GUI: set detector analyzer direction automatically to beam polarization (with the option of changing it manually) | | | 0 | 20 Dec 2018 16:56 | herck |
| 2271 | BornAgain | Normal | Feature | Envelope task #2357: Reflectometry units should be angstroms. | Provide units Angstroms in import 1D data widget | | | 0 | 21 Dec 2018 12:18 | pospelov |
| 2279 | BornAgain | Normal | Feature | | Allow the user to select the contributions to the scattering intensity (diffuse, coherent) | | | 0 | 11 Jan 2019 10:21 | herck |
| 2281 | BornAgain | Normal | Feature | | GUI: provide pan mode for camera in 3D view | | | 0 | 11 Jan 2019 11:26 | pospelov |
| 2293 | BornAgain | Normal | Feature | | 3DView: provide mesocrystals in particle distribution | | | 0 | 31 Jan 2019 12:15 | pospelov |
| 2298 | BornAgain | Normal | Feature | | Provide icon for Hard Disk Percus-Yevick interference function in GUI | | | 0 | 08 Feb 2019 11:27 | herck |
| 2300 | BornAgain | Normal | Feature | | Provide beam divergence for OffSpecular simulation via PythonAPI | | | 0 | 12 Feb 2019 09:40 | pospelov |
| 2313 | BornAgain | Normal | Feature | | Adjust step value in spin box for wavelength (instrument view) | | | 0 | 04 Mar 2019 11:52 | dmitry |
| 2334 | BornAgain | Normal | Feature | | Allow users to choose if they want to put BornAgain in the path or not on Windows | | | 0 | 03 Apr 2019 13:40 | dmitry |
| 2335 | BornAgain | Normal | Feature | | Non-obvious way of constructing custom evaluate function for FitObjective | | | 0 | 03 Apr 2019 14:02 | dmitry |
| 2351 | BornAgain | Normal | Feature | | nomenclature: find better term than "interference" for lattices or correlation functions | | | 0 | 13 May 2019 12:16 | wuttke |
| 2372 | BornAgain | Normal | Feature | | New reading strategy for 2d data | | | 0 | 28 May 2019 18:25 | juan |
| 2378 | BornAgain | Normal | Feature | | Enable new Minuit2 algorithm to Core and GUI | | | 0 | 08 Jul 2019 14:59 | pospelov |
| 2383 | BornAgain | Normal | Feature | | Consider exclusion of masked areas from the data provided by FitObjective | | | 0 | 30 Jul 2019 16:04 | pospelov |
| 2406 | BornAgain | Normal | Feature | | Provide ParticleDistribution with uncoupled parameters | | | 0 | 24 Sep 2019 12:59 | pospelov |
| 1984 | BornAgain | Normal | Bug | | GUI: scollaps/expand arrows on InstrumentView are too big on Mac | | | 0 | 27 Feb 2018 12:19 | pospelov |
| 2037 | BornAgain | Normal | Bug | | Unrealistically high error in parameter determination while fitting specular signal | | | 0 | 16 Apr 2018 12:41 | dmitry |
| 2090 | BornAgain | Normal | Bug | | Fitting history is wiped out after switching to another view and back | | | 0 | 15 Jun 2018 19:41 | dmitry |

| # | Project | Priority | Tracker | Parent task | Subject | Assignee | Target version | % Done | Created | Author |
|------|-----------|----------|-------------|--------------------------------------------|---------------------------------------------------------------------------------------------------|----------|----------------|--------|-------------------|---------------|
| 2099 | BornAgain | Normal | Bug | | relative difference item in fit comparison requires revision | | | 0 | 22 Jun 2018 12:55 | dmitry |
| 2180 | BornAgain | Normal | Bug | | Always use local folder for autosave functionality (also when project lives in the cloud) | | | 0 | 02 Oct 2018 13:34 | Uliana_Koneva |
| 2212 | BornAgain | Normal | Bug | | Saving 1d data in tiff format causes BornAgain to crash. | | | 0 | 26 Oct 2018 14:25 | juan |
| 2230 | BornAgain | Normal | Bug | | GUI on Cinnamon: Window control buttons are missed | | | 0 | 19 Nov 2018 14:21 | ganeva |
| 2269 | BornAgain | Normal | Bug | | GUI on windows: import python script fails with anaconda python in path | | | 0 | 21 Dec 2018 11:22 | dmitry |
| 2272 | BornAgain | Normal | Bug | | Reports from the school: coefficients are not scalar bug. | | | 0 | 21 Dec 2018 14:24 | pospelov |
| 2280 | BornAgain | Normal | Bug | | GUI: consecutive import of sample from several python scripts is affected by previous imports | | | 0 | 11 Jan 2019 10:36 | pospelov |
| 2288 | BornAgain | Normal | Bug | | Remove numerical instability at q=0 for 2d paracrystal | | | 0 | 15 Jan 2019 15:37 | herck |
| 2323 | BornAgain | Normal | Bug | | Cannot set a horizontal/vertical projection when switching from color map to projections view | | | 0 | 12 Mar 2019 15:57 | dmitry |
| 2327 | BornAgain | Normal | Bug | | GUI: Cannot delete several experimental datasets at once | | | 0 | 15 Mar 2019 09:50 | dmitry |
| 2347 | BornAgain | Normal | Bug | | GUI crashes with masks and 90deg beam inclination | | | 0 | 09 May 2019 17:12 | herck |
| 2375 | BornAgain | Normal | Bug | | fit along slices example fails to converge | | | 0 | 04 Jun 2019 18:41 | dmitry |
| 2403 | BornAgain | Normal | Bug | | GUI: Import of int.gz file with reflectometry data shows Q units but the ticks correspond to bins | | | 0 | 05 Sep 2019 17:26 | dmitry |
| 1065 | BornAgain | Low | Refactoring | Feature #1287: == Particle form factors == | Revise particle form factors: change names, add few form factors, change some parametrization | | | 100 | 08 May 2015 18:39 | wuttke |
| 1468 | BornAgain | Low | Refactoring | Feature #1712: == Code maintenance == | Migrate to stdexcept | | | 0 | 16 Jun 2016 10:17 | wuttke |
| 1541 | BornAgain | Low | Refactoring | Feature #1712: == Code maintenance == | review areAlmostEqual and get_relative_difference | | | 0 | 28 Jul 2016 10:18 | wuttke |
| 1547 | BornAgain | Low | Refactoring | Feature #284: === Fit === | restore ScanningMinimizer | | | 0 | 01 Aug 2016 10:57 | wuttke |
| 1693 | BornAgain | Low | Refactoring | Feature #1712: == Code maintenance == | Make consequential use of default values in initializer lists. | | | 0 | 01 Dec 2016 11:13 | wuttke |
| 2343 | BornAgain | Low | Refactoring | | Improve performance in reflectometry engine | | | 0 | 30 Apr 2019 18:17 | dmitry |

| # | Project | Priority | Tracker | Parent task | Subject | Assignee | Target version | % Done | Created | Author |
|---------------------------|-----------|----------|---------------|-------------------------------------------------------------|----------------------------------------------------------------------------------|----------|----------------|--------|-------------------|----------|
| 1638 | BornAgain | Low | Documentation | Envelope task #966: === Theory & Manual === | Manual: Improve / restore side bar navigation | | | 0 | 14 Nov 2016 16:57 | wuttke |
| 2072 | BornAgain | Low | Documentation | | Make a favicon for new website | | | 0 | 12 Jun 2018 16:11 | pospelov |
| 31 | BornAgain | Low | Feature | Envelope task #1119: == Reflectivity == | Implement x-ray polarization factor | | | 0 | 23 May 2012 12:57 | herck |
| 981 | BornAgain | Low | Feature | Feature #964: === GUI === | update refractive index when varying wavelength in GUI real time activity | | | 0 | 19 Feb 2015 17:46 | ganeva |
| 1415 | BornAgain | Low | Feature | Feature #1712: == Code maintenance == | onChange() should invalidate cache, and not immediately execute precompute() | | | 0 | 22 Apr 2016 09:17 | wuttke |
| 1568 | BornAgain | Low | Feature | Feature #1645: == Graded layer and cross-layer particles == | Implement TruncatedEllipsoid to replace HemiEllipsoid | | | 0 | 03 Aug 2016 13:25 | wuttke |
| 1915 | BornAgain | Low | Feature | | Warning while loading certain tiff file | | | 0 | 04 Dec 2017 11:06 | pospelov |
| 1928 | BornAgain | Low | Feature | | Make progress counter work for SpecularSimulation | | | 0 | 22 Dec 2017 14:22 | dmitry |
| 1996 | BornAgain | Low | Feature | | Add to the GUI build time in About section | | | 0 | 02 Mar 2018 11:16 | pospelov |
| 2206 | BornAgain | Low | Feature | | GUI: restore broken drag-and-drop in the ItemTreeView | | | 0 | 18 Oct 2018 15:48 | pospelov |
| 2274 | BornAgain | Low | Feature | | Investigate swig replacement | | | 0 | 09 Jan 2019 11:34 | pospelov |
| 2336 | BornAgain | Low | Feature | | Make reflectometry computation as fast as in Refnx | | | 0 | 04 Apr 2019 13:47 | juan |
| 2355 | BornAgain | Low | Feature | | nomenclature: "rectangular" -> "flat detector" | | | 0 | 13 May 2019 16:27 | wuttke |
| 2064 | BornAgain | Low | Bug | | Weird behaviour when equalizing plots | | | 0 | 29 May 2018 14:24 | dmitry |
| 2152 | BornAgain | Low | Bug | | Project build fail if OpenGL is not accessible | | | 0 | 17 Sep 2018 12:11 | dmitry |
| 2248 | BornAgain | Low | Bug | | Material editor problems on windows | | | 0 | 07 Dec 2018 12:50 | dmitry |
| Waiting (1) | | | | | | | | | | |
| 1416 | BornAgain | Low | Bug | Feature #1287: == Particle form factors == | form factors with numeric integration fail for small and for large q | | | 0 | 25 Apr 2016 09:09 | wuttke |
| Long Term Idea (7) | | | | | | | | | | |
| 300 | BornAgain | Normal | Feature | Envelope task #966: === Theory & Manual === | Investigate alternatives to Monte-Carlo computation of non-analytic form factors | | | 0 | 01 Jul 2013 17:29 | herck |

| # | Project | Priority | Tracker | Parent task | Subject | Assignee | Target version | % Done | Created | Author |
|------|-----------|----------|---------|--------------------------------------------------|-----------------------------------------------------------------------|----------|----------------|--------|-------------------|----------|
| 1540 | BornAgain | Normal | Feature | Envelope task #1406: == Particle correlations == | Implement incoherent z-distribution of particles inside layer | | | 0 | 27 Jul 2016 17:51 | herck |
| 1722 | BornAgain | Normal | Feature | Envelope task #1119: == Reflectivity == | self-absorption correction | | | 0 | 05 Dec 2016 09:33 | wuttke |
| 12 | BornAgain | Low | Feature | Envelope task #1438: === Physics === | Calculation of refractive index for x-rays and neutrons from database | | | 0 | 18 Apr 2012 11:25 | pospelov |
| 319 | BornAgain | Low | Feature | Envelope task #1406: == Particle correlations == | Provide lamellar form factor for soft matter | | | 0 | 05 Jul 2013 14:58 | herck |
| 587 | BornAgain | Low | Feature | Feature #284: === Fit === | Investigate objective function alternatives. | | | 0 | 11 Feb 2014 10:11 | pospelov |
| 1032 | BornAgain | Low | Feature | Envelope task #1406: == Particle correlations == | Rotation of inter-particle structures | | | 0 | 07 Apr 2015 23:29 | a.glavic |