**Abolute Dosimetry changes**Priority : 7 ID: 20963 Status :Completed!1Abolute Dosimetry changes
[Documentation Wiki page | WIKIPAGE:329433]
\* Define data input parsers
\* Define mathematical tools / fitters
\* Define GUI
\* Define 'main workhorse' fitting. Actually interpolations
\* Define Export

**Interpolation of Bragg peaks in between energies**Priority : 1 ID: 21455 Status :Unrefined!1Interpolation of Bragg peaks in between energies
!2 Literature
\* [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3522746/]

**Accept Bragg peak energies from list**Priority : 1 ID: 21456 Status :Unrefined!1Accept Bragg peak energies from list
\* User must be able to input a list (most likely in a file format e.g. csv) to define the energies of the Bragg peaks he/she wishes to create
\* The information frm this file should be stored, retrievable and displayable
\* The import should be noted as an event
\* The approval should be stored as an event

**Find and use library to parse .json files**Priority : 1 ID: 21466 Status :Unrefined!1Find and use library to parse .json files
[DOC:329549]
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**Handle subsets of measured beam width in air**Priority : 1 ID: 21467 Status :Unrefined!1Handle subsets of measured beam width in air
\* must handle arbitrary energy steps
\* must handle multiple z planes
\* must handle multiple nozzle extensions
\* nice to have : handle multiple spots per measurement plane
\* upon import, perform a consistency check between energies with and without preabsorber. must be consistent.
\*\* Same energies in preabsorber and no preabsorber.

**Investigate / define function to describe preabsorber moments**Priority : 1 ID: 21468 Status :Unrefined!1Investigate / define function to describe preabsorber moments

**Investigate / define approach to paramterize beam optics**Priority : 1 ID: 21469 Status :Unrefined!1Investigate / define approach to paramterize beam optics

**User interface to import depth dose curves and phase space json files**Priority : 1 ID: 21470 Status :Unrefined!1User interface to import depth dose curves and phase space json files
!2 Depth dose curves
!2 Phase Space Data

**Generation of box plans / box dose distributions**Priority : 1 ID: 21472 Status :Unrefined!1Generation of box plans / box dose distributions

**Optimisation for constant weight per energy layer**Priority : 1 ID: 21473 Status :Unrefined!1Optimisation for constant weight per energy layer
\* Implement an optimiser which treats all spots in one energy layer the same and gives them the same weight
\* This is needed for optimising the box plans

**Input three types of beam width measurements**Priority : 1 ID: 21476 Status :Unrefined!1Input three types of beam width measurements
\* Beam width in air measurements will be imported for three different measurement "Types"
\* A "Type" of measurement shall be defined as a beam width in air measurement where a different parameter of the measurement was varied
\* There shall be three types
\*\* Beam width for fixed measurement plane, at least 3 (probably 5) nozzle extractions, and number of energy sets E
\*\* Beam width for at least 3 (probably 5) measurements planes, fixed nozzle extractions and number of energy sets E
\*\* Beam width for fix measurement plane, at least 3 (probably 5) nozzle extractions, with preabsorber and number of energy sets E