In the following, a general format for the input file of MITHRA is presented. The red icons or groups can be repeated in the text. *int* stands for an integer number, *real* represents a real value, and *string* denotes a string of characters. The reference directory in the path locations is the path where the simulation is started. In other words, "./" points to the location where the project is called.

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               longitudinal-truncation
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 transverse-truncation
                                             bunching-factor-phase
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                                                       tapering-parameter
                                                                                                                               optical-undulator
                                                                                                                                                                                                                                                                                                                                                                           radius-parallel
                                                                                                                                                                                                                                                                                                                                                                                                           order-parallel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rising-cycles
                                                                                                                                                                                                                                                                                                                                                       polarization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pulse-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                 signal-type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 wavelength
                                                                                                                                                                  beam-type
                                                                                                                                                                                                                                                                                                                                       direction
                                                                                                                                                                                                                                                                                                                   position
                                      number
```