radius-perpendicular signal-type field-initialization strength-parameter bunch-visualization radius-parallel bunch-sampling polarization field-sampling bunch-profile wavelength base-name base-name direction directory base-name directory directory variance position sample rhythm sample sample rhythm rhythmsample offset type field type FIELD 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 real) > = < (real, real, real) > = < (real, real, real) > < (real, real, real) > real, real, real) > < (real, real, real) > < (real, real, real) > = < real between 0 and 1 > = < uniform | gaussian > (real, real, real) < (int, int, int) > words, "./" points to the location where the project is called. = < true | false > = < true | false > (real, real, FEMTOSECOND ATTOSECOND > MILLISECOND MICROSECOND NANOSECOND 3D-crystal ellipsoid | DECIMETER | CENTIMETER MILLIMETER NANOMETER | PICOSECOND MICROMETER ANGSTROM > SECOND | = < manual | = < 1 | 2 > METER = < real > = < real > file > = < real > = < real > real | = < real > = < int > longitudinal-truncation bunching-factor-phase transverse-truncation mesh-truncation-order number-of-particles bunch-initialization lattice-constants bunching-factor bunch-time-start sigma-position sigma-momentum mesh-resolution bunch-time-step distribution length-scale mesh-lengths space-charge shot-noise mesh-center direction time-scale total-time position numbers charge gamma beta type

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