This document lists the old and new variable and function names in the code.

Nomenclature:
old_name → new_name : explanation if necessary

- w0 → initial_beamwidth
- el0 → initial_coherence_width
- r0 → initial_radius_of_wavefront_curvature
- w() → calculate_width() (function)
- el() → calculate_width() (function)
- res → resolution
- g_period → grating_period
- simchoice → simulation_option
- gp0() → get_initial_intensity() (function)
- gp1() → intensity_after_1st_grating() (function)
- gp2() → intensity_after_2nd_grating() (function)
- vel → particle_velocity
- zloc → current_z_position
- zres → z_resolution
- G1_z → z_position_1st_grating
- G2_z → z_position_2nd_grating
- cutoff → intensity_cutoff
- accountGrav → account_gravity
- useimagecharge→account_image_charge
- Gthick → grating_thickness
- izxnumels → total_number_of_pixels
- izx → pixel_array_memory
- xstart → x_start
- xend → x_end
- ystart → y_start
- yend → y_end
- zstart → z_start
- zend → z_end
- zlocstart → initial_z_position
- Grat3I[] → intensity_array[]
- height → slit_height
- Grat3x[] → x_positions_array[]
- v() → calculate_wavefront_radius() (function)
- n → n1 (inside intensity_after_1st_grating)
- m → n2 (inside intensity_after_1st_grating)
- dm → average_n (inside intensity_after_1st_grating)
- n → average_n (inside intensity_after_2nd_grating)

- m → average_m (inside intensity_after_2nd_grating)
- ReT → real_part_fourier_coefficient_array
- ImT → imaginary_part_fourier_coefficient_array
- rowsT → number_of_rows_fourier_coefficient_array
- ReT_and_ImT_generator → real_and_imaginary_arrays_generator (function)
- lim → diffraction_orders
- timeFreefall → time_free_fall (PhaseShifts.c)
- phGrav → phase_gravity (PhaseShifts.c)
- phM → phase_van_der_waals (PhaseShifts.c)
- gravAccel → gravity_acceleration (PhaseShifts.c)
- coef → coefficient (Gratings.c)
- difPlancks → hbar (PhaseShifts.c)
- a5 → central_index_1
- b5 → central_index_2
- c5 → central_index_3
- d5 → central_index_4
- x2pnts → find_element_position_in_array
- tilt → tilt_angle
- exnmright → distance_to_upper_side
- exnmleft → distance_to_lower_side
- wedgeangle → wedge_angle
- theta → twist_angle
- dm → delta_m
- dn → delta_n
- z12 → current_z_distance_to_1st_grating (inside intensity_after_1st_grating)
- z23 → current_z_distance_to_2nd_grating (inside intensity_after_2nd_grating)
- z13 → current_z_distance_to_1st_grating (inside intensity_after_2nd_grating)

Here end the name changes up to v1.0

Removed variables

- resolution: all references to resolution were changed to sp.resolution and any declarations of the kind resolution = sp.resolution were deleted
- rows: removed because it only used sp.resolution values. Now every place that referred to "rows" refers to "sp.resolution".
- vel: it was unnecessarily declared in the former gp# functions
- izxsize: it was only being declared as the size of the izxnumels variable (now called total_number_of_pixels). It was not used anywhere else.
- sp.thick: the thickness of the gratings is contained in 'sp.grating_thickness'.
- chargeratio: this unused local variable in PhaseShifts.c was related to electron modeling.
- eta: recurring (and unused) local variable in PhaseShifts.c and Gratings.c, hailing from ancient IGOR PRO code. It referred to the ratio between the vertical size of one slit (the 'slit height')
  and the vertical distance between two consecutive slits (the 'grating period').
- eta1 and eta2: unneeded local variable in PhaseShifts.c. The structure variables sp.eta1 and sp.eta2 remain in the code.
- sp.account_image_charge, used for electron beam simulations.
- Planck, used in PhaseShifts.c for holding Planck's constant.
- mytheta, used in Gratings.c for holding sp.theta.
- nmvel: sp.velocity of beam particles is now handled in SI units. See commit 4397396.
- Const_e: used in Misc.c for holding Napier's constant. Now using standard math.h M_E.
- sp.elecOrAtom: for now, the code will only model muonium.
- phi : it was unused inside gratings.c
- z12: equations could be rewritten in a better way inside intensity_after_2nd_grating so it could be removed
- realzloc, the wrong values for the dimensions of the interferometer then this variable was a trick to make the simulation without fixing that. The dimensions are now more accurate.

Here end the deletions up to v1.0
