

PRO\_lib functions and classes (version 2026-1)

applicable to

applicable to

analysis	rays	wavefunction
TF_coh		x
TF_incoh		x
Zernike_analysis	x	
abs_TF		x
interferogram	x	
phase_TF		x
ray_aberrations	x	
wavefront_error	x	

common	rays	wavefunction
focal_length	x	
nm_to_RGB		

components	rays	wavefunction
circ_aperture	x	x
circ_shield	x	x
conical_guide	x	
coordinate_break	x	
detector	x	
elliptical_aperture	x	x
elliptical_shield	x	x
function_aperture	x	x
inverse_coordinate_break	x	
lens	x	x
mirror	x	
paraxial_thin_lens	x	
plane_mirror	x	x
poly_aperture	x	x
poly_shield	x	x
pyramidal_guide	x	
r2w_converter	x	
randomize_phase		x
rect_aperture	x	x
rect_platelet	x	
rect_shield	x	x
reflection_grating	x	
source_reflector	x	
spacer		
spatial_filter		x
spectral_filter	x	
surface	x	x
thin_lens		x
transmission_grating	x	
transparency		x
w2r_converter		x

doc	rays	wavefunction
doc		

export	rays	wavefunction
export_3d_system	x	

geom_optics	rays	wavefunction
conjugate_planes	x	
imaging_params	x	
pupils_and_windows	x	
show_imaging_params	x	
stops	x	

init	rays	wavefunction
init (class)	x	x

materials	rays	wavefunction
Abbe_Vd		
Abbe_Ve		
index		
show_material		

misc	rays	wavefunction
pp (class)	x	x
convert_zmx_file	x	
Fresnel_coefficients	x	x
im_wavfct		x
irrad		x
load_plane_data	x	x
magnitude		x
phase		x
photo_to_radio		
power	x	x
radio_to_photo		
re_wavfct		x
save_3d_graphics	x	
save_plane_data	x	x
single_ray_data	x	
system_check	x	x
system_coordinates		
system_radiant_power	x	x
uphase		x

optimization	rays	wavefunction
centroid	x	
centroid_and_spot_radius	x	
collimation	x	
find_focus	x	
mean_and_std	x	
opl	x	
optimization	x	
spot_radius	x	

plotting	rays	wavefunction
aberr_plot	x	
hull_plot	x	
spot_diagram	x	
surf_plot		x

propagation	rays	wavefunction
propagation	x	x

raytracing	rays	wavefunction
child_coordinates	x	
local_coordinates	x	
local_coordinates_of_point	x	
normal_vectors_to_standard_surface	x	
normal_vectors_to_surface_function	x	
parent_coordinates	x	
reference_coordinates	x	
reference_coordinates_of_point	x	
root_coordinates	x	
root_coordinates_of_point	x	
show_intersection_points	x	
show_rays_2d	x	
show_rays_3d	x	

setup	rays	wavefunction
show_2d_system	x	
show_3d_system	x	

sources	rays	wavefunction
gaussian_source		x
paraxial_spherical_wave		x
planar_source	x	
plane_wave	x	x
point_like_source		x
ray_file	x	
single_ray	x	
spherical_wave	x	x
wavefunction		x