

QDYN Config Reference Card

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bwr (lines)	op_surf_2 [0]; op_type [' ']; op_unit ['iu']; lambda [zero]; omega [zero]; width [zero]	g_a ['delta_eps_sq']; grad_order [2]; iter_dat [' ']; iter_start [1]; iter_stop [0]; keep_pulses [' ']; krotov2_conv_dat [' ']; lambda_b [zero]; lbfgs_memory [0]; limit_pulses [.false.]; linesearch [0]; lnsrch_la_stepsize [2]; lnsrch_mode ['log-full']; lnsrch_nrsteps [15]; max_disk_mb [0]; max_pulse_iter [1]; max_ram_mb [0]; max_seconds [0]; method [' ']; params_file [' ']; pulse_reterr [1.0d-5]; re_init_prop [.true.]; sigma_reform [' ']; storage_folder [' ']; strict_convergence [.false.]; tau_dat [' ']; tf_self_cons_max [10]; tf_self_cons_min [1]; transf_func_file [' ']; undist_diff_conv [1.0d-5]; use_krotov_line_search [.false.]	oct_parametrization [' ']; oct_phi_max [zero]; oct_phi_min [zero]; oct_pulse_max [zero]; oct_pulse_min [zero]; oct_shape [' ']; oct_shapefile [' ']; oct_specfil_frq_thld [1e-12]; oct_spectral_filter [' ']; oct_t_0_max [zero]; oct_t_0_min [zero]; oct_w_L_max [zero]; oct_w_L_min [zero]; optimize [.true.]; phi [zero]; rwa [.false.]; scale [zero]; shape_t_start [zero]; shape_t_stop [zero]; t_0 [zero]; t_FWHM [zero]; t_fall [zero]; t_rise [zero]; t_start [zero]; t_stop [zero]; time_unit ['iu']; transf_func_file [' ']; type [' ']; w_L [zero]; w_flip [zero]; w_step [zero]
dissipator (lines)	add_to_H_jump [' ']; conjg_pulse [.false.]; conv_to_superop [.true.]; expand_hermitian [.false.]; filename [' ']; label [' ']; n_photons [1]; op_unit ['iu']; pulse_id [0]; real_op [.true.]; sparsity_model [' ']; type [' ']	prop (items)	scattering (items)
eigensystem (lines)	diagtype [' ']; label [' ']; nev [0]; nev_fac [zero]; pulse_val_i [0]; read_dump [' ']; write_dump [' ']	IT0_do_iter [.true.]; IT0_guess_method ['extrapol']; cheby_prec [zero]; inhom_expan_err [1.0d-12]; inhom_max_order [5]; inhom_method [' ']; mcwf_order [2]; method [' ']; n_taylor [20]; newton_arnoldi_order [4]; newton_max_restarts [1000]; newton_norm_min [1.0d-15]; newton_relerr [1.0d-13]; rk45_abserr [1.0d-15]; rk45_relerr [1.0d-11]; use_mcwf [.false.]	A1 [zero]; A2 [zero]; B_static [zero]; E_grid_type [' ']; E_max [zero]; E_min [zero]; E_static [zero]; I [zero]; R1 [zero]; R2 [zero]; beta1 [zero]; beta2 [zero]; coup_al [.false.]; coup_d [.false.]; coup_i1s1 [.false.]; coup_i2s1 [.false.]; coup_i2s2 [.false.]; coup_s1s2 [.false.]; coup_sl [.false.]; diff_cross_section [.false.]; energy [zero]; energy_unit ['iu']; entrance_channel [0]; entrance_surf [1]; filename [' ']; g1 [zero]; g2 [zero]; i1 [zero]; i2 [zero]; l [0]; l_max [0]; method [' ']; mi1 [zero]; mi2 [zero]; ml [0]; ms1 [zero]; ms2 [zero]; nE [0]; ntheta [0]; s1 [zero]; s2 [zero]; scat_length [.false.]; scat_phase [.false.]; system [' ']; wavefunctions [.false.]; wigner_tables [.false.]; zeta1 [zero]; zeta2 [zero]
grid (lines)	E_max [zero]; beta [zero]; coord_type [' ']; dim [0]; dr_max [huge(zero)]; label [' ']; m [0]; m1 [0]; m2 [0]; matype [' ']; moveable [.false.]; nl [0]; npt [0]; nr [0]; r_max [zero]; r_max1 [zero]; r_max2 [zero]; r_min [zero]; read_envelope [' ']; spher_method [' ']; write_envelope [' ']	psi (lines)	sceint (items)
ham (lines)	A [zero]; B [zero]; C [zero]; C12 [zero]; C3 [zero]; D [zero]; E_0 [zero]; E_Lmin [zero]; V_max [huge(zero)]; V_min [-huge(zero)]; asym_S0 [zero]; asym_stark [zero]; conjg_pulse [.false.]; cos_theta [.false.]; depth [zero]; deriv_before [.false.]; energy_cutoff [huge(zero)]; eta [zero]; expand_hermitian [.false.]; filename [' ']; filename_int [' ']; filename_spinops [' ']; fwhm [zero]; imag_op [.false.]; int_model [' ']; is_periodic [.false.]; jmax [0]; kin_base [' ']; label [' ']; laser_I [zero]; levelfile [' ']; lin_grad [zero]; map_to_j [-1]; mass [one]; max_rotbarr [huge(zero)]; memoize_ops [.false.]; mirror_ex [.false.]; mu_a [zero]; mu_b [zero]; mu_c [zero]; n_ex_max [0]; n_ex_min [0]; n_photons [1]; n_spins [0]; n_surf [0]; no_asymptote_check [.false.]; no_splining [.false.]; offset [zero]; op_form [' ']; op_surf [0]; op_surf_1 [0];	pulse (lines)	tgrid (items)
	observables (lines)	IT0_guess_method ['extrapol']; IT0_max_order [5]; inhom_method [' ']; mcwf_order [2]; method [' ']; n_taylor [20]; newton_arnoldi_order [4]; newton_max_restarts [1000]; newton_norm_min [1.0d-15]; newton_relerr [1.0d-13]; rk45_abserr [1.0d-15]; rk45_relerr [1.0d-11]; use_mcwf [.false.]	Z [0]; field_comp [' ']; field_gauge [' ']; imag_spharm [.false.]; l_max [0]; n_frozen [0]; n_max [0]; numeric_2e [.false.]; orbital_ints [.true.]; prim_integrals [.false.]
	C12 [zero]; C3 [zero]; E_0 [zero]; V_max [huge(zero)]; V_min [-huge(zero)]; asym_S0 [zero]; asym_stark [zero]; column_label [' ']; conjg_pulse [.false.]; cos_theta [.false.]; depth [zero]; deriv_before [.false.]; eta [zero]; exp_surf [0]; exp_unit ['iu']; expand_hermitian [.false.]; filename [' ']; from_time_index [1]; fwhm [zero]; imag_op [.false.]; in_lab_frame [.false.]; is_real [.true.]; kin_base [' ']; label [' ']; laser_I [zero]; lin_grad [zero]; map_to_j [-1]; mass [one]; n_photons [1]; n_surf [0]; no_asymptote_check [.false.]; no_splining [.false.]; offset [zero]; op_form [' ']; op_surf [0]; op_surf_1 [0]; op_surf_2 [0]; op_type [' ']; op_unit ['iu']; outfile [' ']; pulse_id [0]; r_star [zero]; r_unit ['iu']; rat_r_0 [zero]; rc [zero]; real_op [.true.]; rotbarr_j [0]; rshift [zero]; sparsity_model [' ']; square [' ']; step [1]; subspace ['total']; time_unit ['iu']; to_time_index [-1]; type [' ']; velocity_gauge [.false.]; w_0 [zero]; width [zero]	IT0_do_iter [.true.]; IT0_guess_method ['extrapol']; cheby_prec [zero]; inhom_expan_err [1.0d-12]; inhom_max_order [5]; inhom_method [' ']; mcwf_order [2]; method [' ']; n_taylor [20]; newton_arnoldi_order [4]; newton_max_restarts [1000]; newton_norm_min [1.0d-15]; newton_relerr [1.0d-13]; rk45_abserr [1.0d-15]; rk45_relerr [1.0d-11]; use_mcwf [.false.]	dt [zero]; fixed [.false.]; nt [0]; t_start [zero]; t_stop [zero]