









file	type	description
ftdqmc_main.f90	program	main program
mod_global.f90	module	Global data module  data constants, lattice lists, model parameters, matrices for DQMC, control parameters  subroutine make_tables: reading parameters, allocate arrays deallocate_tables: deallocate arrays
matrix_tmp.f90	module	Temporary variables module  data frequently used temporary vectors and matrices  subroutine allocate_matrix_tmp: allocate matrices deallocate_matrix_tmp: deallocate matrices
obser.f90	module	Measurement module  data observables  subroutine allocate_obs: allocate observables deallocate_obs: deallocate observables obser_init: initiate observables obser_equaltime: equal-time measurements obser: time-displaced measurements
ftdqmc_core.f90	module	Sweep module  data U,D,V matrices, Green's functions, B matrices, etc.  subroutine allocate_core: allocate matrices deallocate_core: deallocate matrices ftdqmc_stablize_0b_svd: 0->beta direction sweep stabilization ftdqmc_stablize_b0_svd: beta->0 direction sweep stabilization ftdqmc_sweep_start: start sweep, time slice shift to beta ftdqmc_sweep: beta->0, 0-> beta, sweep green_equaltime: calculate equal time Green's function green_tau: calculate time-displaced Green's functions Bmat_tau: calculate B(tau1,tau2), tau1>tau2
mmthl.f90	subroutine	input multiply $\exp(-dt\tau * T)$
mmthlm1.f90	subroutine	input multiply $\exp(dt\tau * T)$
mmthr.f90	subroutine	$\exp(-dt\tau * T)$ multiply input
mmthrm1.f90	subroutine	$\exp(dt\tau * T)$ multiply input
mmuul.f90	subroutine	input multiply $\exp(V(c))$
mmuulm1.f90	subroutine	input multiply $\exp(-V(c))$
mmuur.f90	subroutine	$\exp(V(c))$ multiply input

mmuurm1.f90	subroutine	$\exp(-V(c))$ multiply input
upgradeu.f90	subroutine	Update auxiliary fields for decoupling Hubbard U
sli.f90	subroutine	Set lattice lists
salph.f90	subroutine	Set $\exp(V(c))$ elements, and the difference after update
sthop.f90	subroutine	Set $\exp(-dtau*T)$ matrices
ftdmc_initial.f90	subroutine	ftdmc_initial set random number seed, print program head ftdmc_inital_print print model and control parameters
inconfc.f90	subroutine	Initial configurations: randomly or read from file
outconfc.f90	subroutine	Output configurations to file
preq.f90	subroutine	Reduce equal time observable accumulators, output to file
prtau.f90	subroutine	Reduce time-displaced observable accumulators, output to file