```
get_qlist_nova_classget_qlist
                      DAT
                      Hw Par am : str
                      dataset : dict
                      ene : ndarray
                      fig: None Type
                      pklfile: None Type
                      save_file : None Type
                      spectra: ndarray
                      create_fig()
                      getXYZ(x, y, z, xb, yb)
                      get_all_data()
                      get_all_data2()
                      get_all_data3()
                      get_all_sdata()
                      get_data()
                      get_intdtype(maxnumber)
                      get_sdata()
                      init_eca()
                      init_ecm()
                      load DAT()
                      loadsDAT()
                      plot_sub(X, Y, Z, axindx, vm ax)
                      qem ap (qmin, qm ax)
                      read pkl()
                      save DAT()
                      save_hdf5()
                      save_pkl()
                      save_spectr a(spectr afile, old)
                      spect(qmin, qmax, dataset, isplot)
                      spect 2(qmin, qm ax, dataset, i splot)
                      spect 3(qmin, qm ax, dataset, i splot)
                      spectm (qmin, qm ax, dataset)
                                                                                                                                        qens_fit_class.qens_fit
                                                                                                                             bg : flo at
                                                                                                                             devf :
                                                                                                                             elim: None Type
                                                                                                                            g amm a
                                                                                                                            le a st sq : bool
                                                                                                                             optbgpe akr atio
                                                                                                                             out
                                                                                                                             quiet : bool
                                                                                                                             showplot: bool
                                                                                                                            x_df
                                                                                                                            x_tf
                                                                                                                            y_df
                   get_resampled_data_org_class.Sget_qlist
                                                                                                                             afteroptimize(out, s_sq, variables, figname)
                                                                                                                            check_generated_samples(x, data)
                                                                                                                             check_spectra()
                EC
                                                                                                                             checkdata()
                intensity : ndarray
                                                                                                                            convlore(f, g,amma, x)
                pklfile: None Type:
                                                                                                                            convloreorg (f, g anım a, x)
                save_file: None Type
                                                                                                                             correction()
                spectrab : ndarray
                                                                                                                             decorrection()
                get_all_sdata(DATQE)
                                                                                                                             fun_lore(x, g amm a)
                                                                                                                            generate_data(idevf, itf, check, rebin)
                get_fr ac_ Time Par am ( Time Par am, fr ac )
                get_org_data(binw, run No, Time Par am, fr ac)
                                                                                                                             get_data(infile)
                get_org_intensity_array()
                                                                                                                             get_hdata(infile)
                                                                                                                             get_icorrd at a (icorrfile )
                get_org_spectr a(qmin, qm ax)
                                                                                                                             get_idata(infile)
                get_qem ap(qmin, qm ax)
                                                                                                                             get_sdata(infile)
                lo ad_pkl() |
                 save_pkl()
                                                                                                                             icorr()
                                                                                                                            interpolate()
                                                                                                                             kde_hist(kvariables, hvariables)
                                                                                                                             kde_hist_sub(tf, devf, kde, variables)
                                                                                                                            limit(x, y, mergin)
                                                                                                                            limit 2(x, y, elim)
                                                                                                                            multii(idevf, itf)
                                                                                                                             optimize (variables, figname)
                                                                                                                             preprocess(doicorr)
                                                                                                                             preprocessh (doicorr )
                                                                                                                             preprocessnoi (doicorr )
                                                                                                                             preprocesss(doicorr)
                                                                                                                             rebin_generated_samples(x, data, num, shift)
                                                                                                                            reconstruct(elim, check, idevf, itf)
                                                                                                                             res(coeff s, x, d, t)
                                                                                                                            res_icorr(coeffs, x, t)
                                                                                                                             save_gener ated_data(x, data, savefile)
                                                                                                                             save_result()
                                                                                                                             te stconv()
                                                                                          qens_class_fort_mpi.qens
                                                                                                                             qens_fit_class_hist_noidata.runhistnoidata
                                                                                      M : int
                                                                                      Win Func : str
                                                                                                                              alph a
                                                                                      d at adir
                                                                                                                              devf
                                                                                      dataset
                                                                                                                              elim
                                                                                                                              elimw
                                                                                      fign ame : str
                                                                                                                              le a st sq : bool
                                                                                      od at a : bool
                                                                                      q sel : bool
                                                                                                                              numcycle : int
                     get_resampled_data_class.Sget_qlist
                                                                                      quiet : bool
                                                                                                                              out all: list
                                                                                      save_file
DATB
                                                                                                                              outfile
                                                                                      selected_energy
DATBQE
                                                                                                                              tf
                                                                                      selected_spectra:ndarray
DATQE
                                                                                                                              Х
                                                                                      shift
                                                                                                                             yd
dataset : dict
                                                                                      showplot: bool
pklfile: None Type:
                                                                                                                              check_out(cyidx, _out)
save_file : None Type
                                                                                      tin_real : ndarray :
                                                                                                                              correction (x, yd, yt)
spectrab : ndarray
                                                                                      winparam: int
                                                                                                                              cycle()
get_all_sdata()
                                                                                      xvec : nd arr ay
                                                                                                                              decorrection(x, yd, yt)
                                                                                      xvec_real : ndarray.
get_all_sdatab()
                                                                                                                              generate_data(idata)
                                                                                                                              get_xmlyd()
                                                                                      y : tuple :
get_boot_strap_sampled_spectra(nbs, qmin, qmax, seed, restart, wnocorr, frac)
                                                                                                                             loadfile()
                                                                                      y_ : tuple
get_qem ap()
                                                                                                                              modify_out(cyidx, out)
get_qem apb (inten sityb)
                                                                                      add_shift()
                                                                                                                             optimize(x, yd, yt, v ariable s)
                                       Ą
                                                                                      add_shift_de()
                                                                                                                              output()
                                                                                      calc_sskernel_f90()
                                                                                                                              plot_di stribution (binwidth 1, binwidth 2)
                                                                                      calc_ssvkernel_f90(Win Func No)
                                                                                                                             plot_di stribution_single(binwidth 1, show)
                                                                                      get_xvec()
                                                                                                                              preprocess()
                                                                                      plotter()
                                                                                                                              reconstruct(x, yd, out)
                                                                                      run_ssvkernel(num)
                                                                                                                             res(coeffs, x, d, t)
                                                                                      save_output(output_file)
                                                                                                                              savefile()
                                                                                      save_outputs(output_file)
                                                                                      select_spectra()
                                                                                      qen s_fit_class_kde runkdenoid at a
                                                                                      M:int
                                                                                      Win Func : str
                                                                                      alpha
                                                                                      de i
                                                                                      devf.
                                                                                      đt i
                                                                                      elim
                                                                                      elimw
                                                                                      le a st sq : bool
                                                                                      numcycle : int
                                                                                      outall: list
                                                                                      outfile
                    get\_resampled\_data\_mpi\_class.Sget\_qlist
                                                                                      r ank
                                                                                      selected_energy
      pklfile: None Type
                                                                                      selected_spectra
     save_file : None Type
      spectrab : ndarray |
     get_boot_strap_sampled_spectra(nbs, qmin, qmax, seed, wnocorr, frac)
                                                                                      tin_real : ndarray
                                                                                      winparam : int
                                                                                     y : tuple
                                                                                     y_hist
                                                                                      yd i
                                                                                      Gauss(x, w)
                                                                                      b aloon_e stim ator() |
                                                                                      cycle() -
                                                                                      get_xmlyd()
                                                                                      hist()
                                                                                      kde(x, y, num)
                                                                                      kde_baloon(x, y)
                                                                                      preprocess()
                                                                                     run_ssvkernel_notused()
                                                  qen s_kde_re sampled qen s_kde_re sampled
                                                  pklfile
                                           qen s_b alloon_re sample_cl ass. Sqen s_b alloon_re sample s
                                           Nb:int
                                           bg : float
                                           comm
                                           elim : list
                                           gammas : ndarray
                                           ishist : bool
                                           kys:
                                           le a st sq : bool
                                           num : int
                                           orgfiles: list
                                           organodifier: str
                                           out all: list, nd arr ay
                                           prefix : str
                                           quiet : bool
                                           r ank
                                           r sfile s : li st
                                           r smodifier : str
                                           run Nos : list
                                           size
                                           variables: list
                                           y : str
                                           Calc BandW (orgfile, inb)
                                           Define Files()
                                            Do Qf (inb)
                                           Gauss(x, w)
                                           b alloon (ky, sy )
                                           eachrunno(fidx, inb)
                                           getr sspectr a(r sfile, inb)
                                           run()
                                           run_eachkde()
                                           qen s_b alloon_re sample_cl a ssm qen s_b alloon_re sample s
                                           Nb:int
                                           comm
                                           elim : list
                                           gammas : ndarray
                                           ishist: bool
                                           leastsq:bool
                                           num : int
                                           organodifier: str
                                           prefix: str
                                           qidx :
                                           quiet : bool
                                           r ank
                                           r smodifier : str
                                           run Nos : list
                                           size
                                           spectr ab
                                           variables : list
                                           y : str
                                           Calc BandW (orgfile, inb)
                                           getr sspectr a(r sfile, inb)
                                         qens_balloon_resample_org_classm_class.qens_org_classm
                                         outall: list, ndarray
                                         outfile: str
                                         qidx
                                         combine_qs()
```

get\_out()

run\_for\_mqs()