

```
get_qlist_nova_class.get_qlist
    DAT
    HwParam : str
    dataset : dict
    ene : ndarray
    err : ndarray
    fig
    pkfile : NoneType
    save_file : NoneType
    spectra : ndarray

create_fig()
getXYZ(x, y, z, xb, yb)
get_all_data()
get_all_data2()
get_all_data3()
get_all_monidata()
get_all_sdata()
get_data()
get_intdtype(maxnumber)
get_sdata()
init_eca()
init_ecm()
loadDAT()
loadsDAT()
plot_sub(X, Y, Z, axindx, vmax)
qemap(qmin, qmax)
read_pkl()
run_moni()
saveDAT()
save_hdf5()
save_pkl()
save_spectra(spectrafile, old)
spect(qmin, qmax, dataset, isplot)
spect2(qmin, qmax, dataset, isplot)
spect3(qmin, qmax, dataset, isplot)
spect3e(qmin, qmax, dataset)
spectm(qmin, qmax, dataset)
spectme(qmin, qmax, dataset)
```

```
get_resampled_data_org_class.Sget_qlist
    DAT
    EC
    intensity : ndarray
    pkfile : NoneType
    save_file : NoneType
    spectrab : ndarray

get_all_sdata(DATQE)
get_frac_TimeParam(TimeParam, frac)
get_org_data(binw, runNo, TimeParam, frac)
get_org_intensity_array()
get_org_spectra(qmin, qmax)
get_qemap(qmin, qmax)
load_pkl()
save_pkl()
```

```
qens_fit_class.qens_fit
    bg : float
    devf
    elim : NoneType
    gamma
    k
    leastsq : bool
    ml
    optbgpeakratio
    out
    quiet : bool
    showplot : bool
    tf
    x_df
    x_tf
    y_df
    y_tf

afteroptimize(out, s_sq, variables, figname)
check_generated_samples(x, data)
check_spectra()
checkdata()
convlore(f, gamma, x)
convloreorg(f, gamma, x)
correction()
decorrection()
fun_lore(x, gamma)
generate_data(idevf, itf, check, rebin)
get_data(infile)
get_hdata(infile)
get_icordata(icorrfile)
get_idata(infile)
get_sdata(infile)
icorr()
interpolate()
kde_hist(kvariables, hvariables)
kde_hist_sub(tf, devf, kde, variables)
limit(x, y, mergin)
limit2(x, y, elim)
multi(idevf, itf)
optimize(variables, figname)
preprocess(doicorr)
preprocessh(doicorr)
preprocessnoi(doicorr)
preprocess(doicorr)
rebin_generated_samples(x, data, num, shift)
reconstruct(elim, check, idevf, itf)
res(coeffs, x, d, t)
res_icorr(coeffs, x, t)
save_generated_data(x, data, savefile)
save_result()
testconv()
```

```
get_resampled_data_class.Sget_qlist
    DATB
    DATBQE
    DATQE
    dataset : dict
    pkfile : NoneType
    save_file : NoneType
    spectrab : ndarray

get_all_sdata()
get_all_sdatab()
get_boot_strap_sampled_spectra(nbs, qmin, qmax, seed, restart, wnocorr, frac)
get_qemap()
get_qemapb(intensityb)
```

```
qens_class_fort_mpi.qens
    M : int
    WinFunc : str
    datadir
    dataset
    de
    figname : str
    odata : bool
    qsel : bool
    quiet : bool
    save_file
    selected_energy
    selected_spectra : ndarray
    shift
    showplot : bool
    tin
    tin_real : ndarray
    winparam : int
    xvec : ndarray
    xvec_real : ndarray
    y : tuple

add_shift()
add_shift_de()
calc_sskernel_f90()
calc_sskernel_f90(WinFuncNo)
get_xvec()
plotter()
run_ssvkernel(num, isnovariablebw)
save_output(output_file)
save_outputs(output_file)
select_spectra()
```

```
qens_fit_class_hist_noidata.runhistnoidata
    alpha
    devf
    elim
    elimw
    leastsq : bool
    ml
    numcycle : int
    outall : list
    outfile
    tf
    x
    yd

check_out(cyidx, _out)
correction(x, yd, yt)
cycle()
decorrection(x, yd, yt)
generate_data(idata)
get_xmlyd()
loadfile()
modify_out(cyidx, out)
optimize(x, yd, yt, variables)
output()
plot_distribution(binwidth1, binwidth2)
plot_distribution_single(binwidth1, show)
preprocess()
reconstruct(x, yd, out)
res(coeffs, x, d, t)
savefile()
```

```
get_resampled_data_mpi_class.Sget_qlist
    pkfile : NoneType
    save_file : NoneType
    spectrab : ndarray

get_boot_strap_sampled_spectra(nbs, qmin, qmax, seed, wnocorr, frac)
```

```
qens_fit_class_kde.runkdenoidata
    M : int
    WinFunc : str
    alpha
    de
    devf
    dt
    elim
    elimw
    leastsq : bool
    ml
    numcycle : int
    outall : list
    outfile
    rank
    selected_energy
    selected_spectra
    tf
    tin
    tin_real : ndarray
    winparam : int
    x
    y : tuple
    y_hist
    yd

Gauss(x, w)
baloon_estimator()
cycle()
get_xmlyd()
hist()
kde(x, y, M, winparam, num, isnovariablebw)
kde_baloon(x, y)
preprocess()
run_ssvkernel_notused()
```

```
qens_kde_resampled.qens_kde_resampled
    pkfile
```

```
qens_balloon_resample_class.Sqens_balloon_resamples
    Nb : int
    bg : float
    comm
    elim : list
    etl
    gammas : ndarray
    ishist : bool
    isnovariablebw : bool
    isplthk : bool
    kyios
    kyis : list
    kyos
    kys : list
    leastsq : bool
    num : int
    odata : bool
    orgfiles : list
    orgmodifier : str
    outall : list, ndarray
    pkfile
    prefixes : list
    quiet : bool
    rank
    rsfiles : list
    rsmodifier : str
    runNos : list
    size
    variables : list
    x
    y : str

CI_of_intensities()
CI_of_intensities_io()
CalcBandW(orgfile, inb)
DefineFiles()
DoQf(inb)
DoQfio(inb)
Gauss(x, w)
balloon(ky, sy)
check_idata()
eachrunno(fidx, inb)
eachrunno_io(fidx, inb)
getrsspectra(rsfile, inb)
io(kyo, kyi)
run()
run_eachkde()
run_eachkde_io()
run_io()
```

```
qens_balloon_resample_classme.qens_balloon_resamples
    M : int
    Nb : int
    comm
    elim : list
    etl : ndarray
    gammas : ndarray
    ishist : bool
    isnovariablebw : bool
    isplthk : bool
    kyios
    kyos
    kys : list
    leastsq : bool
    num : int
    orgmodifier : str
    outall : ndarray, list
    prefixes : list
    qidx
    quiet : bool
    rank
    rsmodifier : str
    runNos : list
    size
    spectrab
    variables : list
    winparam : int
    xe
    y : str

CalcBandW(orgfile, inb)
geterrorbars()
geterrorbars_io()
getrsspectra(rsfile, inb)
res(coeffs, x, d, t)
run_eachkde()
run_eachkde_io()
```

```
qens_balloon_resample_org_classme_class.qens_org_classm
    outall : list, ndarray
    outfile : str
    qidx
    qsize

run_for_mqs()
```