

```
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_hd5()
    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)
    preprocess(doicorr)
    preprocess(doicorr)
    preprocess(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_sdata()
    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_sskernel(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, ndarray
    outfile
    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_sskernel_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

    Cl_of_intensities()
    Cl_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 : list, ndarray
    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_classmre.qens_balloon_resamples
    Nb : int
    bg : float
    comm
    elim : list
    gammas : ndarray
    ishist : bool
    leastsq : bool
    num : int
    orgmodifier : str
    pkfile
    prefixes : list
    qidx
    quiet : bool
    rank
    rsmodifier : str
    runNos : list
    size
    spectrab
    usehes : bool
    variables : list
    y : str

    CalcBandW(orgfile, inb)
    DoQf(inb)
    getbins()
    getrsspectra(rsfile, inb)
    optimize(x, yd, yt, et, variables)
    rebin(x, y)
    res(coeffs, x, d, t, e)
```

```
qens_balloon_resample_classm2re.Sqens_balloon_resamples
    M : int
    Nb : int
    comm
    elim : list
    gammas : ndarray
    ishist : bool
    isnovariablebw : bool
    isplthk : bool
    kys : list
    leastsq : bool
    num : int
    orgfiles : list
    orgmodifier : str
    outall : ndarray
    pkfile
    prefixes : list
    qidx
    quiet : bool
    rank
    rsfiles : list
    rsmodifier : str
    runNos : list
    size
    variables : list
    winparam : int

    Cl_of_intensities()
    DefineFiles()
    getrsspectra(rsfile, inb)
```

qens_balloon_resample_allkde_classm2re_class.Sqbr

outfile