

Soft version: *analyses MATLAB v1.0.1*

Manual version: *v0.1*

1. QPR_MAIN_data_process_p1_HZB/CERN

Input data

- ExperimentData

Output data

- ExperimentData
- alldata
- alldata0
- mode

Import of the measured data to [ExperimentData], creation of the [alldata] and [alldata0] archives, which conrations all data in one list.

-----Structure of the [alldata] database:-----

alldata(:,1:37) - string from the data file

alldata(:,38) - Run number from the file name (if no 'Run' in the name, then == 0)

alldata(:,39) - file number from the [ExperimentData.QX], from which the point is taken

-----end of struct-----

2. QPR_MAIN_data_process_p2_plots

Creates sorted Rs vs B and Rs vs T datasets

-----Structure of the [RsvT] database:-----

RsvT.QX(:).data - measured data

RsvT.QX(:).data(:,1) - mean Sensor temp

RsvT.QX(:).data(:,2) - 1 sigma Sensor temp

RsvT.QX(:).data(:,3) - Rs [nOhm]

RsvT.QX(:).data(:,4) - 1 sigma of Rs points

RsvT.QX(:).data(:,5) - Run Number, if 0 - Not spec

RsvT.QX(:).data(:,6) - CW (100) (or duty factor if CW sort=1)

RsvT.QX(:).data(:,7) - File number if File_sort=1, corr. to num. in ExperimentData

RsvT.QX(:).Bfield(:) - B field value (average) corr to the dataset

RsvT.QX(:).dataline(:) - full dataline from the .txt file of the first point of averaged point set.

-----end of struct-----

-----Structure of the [**RsvB**] database:-----

RsvB.QX(:).data - measured data

 RsvB.QX(:).data(:,1) - mean B field [mT]

 RsvB.QX(:).data(:,2) - 1 sigma B field [mT]

 RsvB.QX(:).data(:,3) - Rs [nOhm]

 RsvB.QX(:).data(:,4) - 1 sigma of Rs points

 RsvB.QX(:).data(:,5) - Run Number, if 0 - Not spec

 RsvB.QX(:).data(:,6) - CW (100) (or duty factor if CW sort=1)

 RsvB.QX(:).data(:,7) - File number if File_sort=1, corr. to num. in ExperimentData

RsvB.QX(:).Temp - temperature value corr. to the dataset

RsvB.QX(:).dataline(:) - full dataline from the .txt file of the firs point of averaged point set.

-----end of struct-----