

# Project saved:

MantidPlot - M:\My Documents\mantid\copper activation energy calculation.mantid

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MS Shell Dlg 2

Workspaces

Results Log

Scripting Console

DynamicKT

	Temperature	HoppingRate	HoppingRateError	1overT[X]	lnHoppingRate[Y]	lnHoppingRateError
1	60	0.00402523	0.00316612	0.01666666666667	-5.515173226887	0.00316612
2	65	0.00523676	0.0031947	0.01538461538462	-5.252052292499	0.0031947
3	70	0.0118809	0.003297	0.01428571428571	-4.432823210341	0.003297
4	75	0.00745003	0.00326582	0.01333333333333	-4.899537219753	0.00326582
5	80	0.0265151	0.00353281	0.0125	-3.63004089695	0.00353281
6	85	0.0251919	0.00352375	0.01176470588235	-3.681232764705	0.00352375
7	90	0.0552603	0.00400509	0.01111111111111	-2.89570053062	0.00400509

Abraham

	Temperature	HoppingRate	HoppingRateError	1overT[X]	lnHoppingRate[Y]	lnHoppingRateError
1	100	0.251740788	0.013813759	0.01	-1.37935533991	0.0100146
2	190	2.100394664	0.072308835	0.005263157894737	0.7421252623099	0.0974348
3	180	1.586078041	0.04782012	0.005555555555556	0.4612643281811	0.1036711
4	170	1.302317343	0.037264842	0.005882352941176	0.2641452491109	0.1410771
5	160	1.068425152	0.029205077	0.00625	0.06618574372123	0.441259
6	150	0.784196865	0.02161724	0.006666666666667	-0.2430951868366	0.0889250
7	140	0.62656249	0.018406336	0.007142857142857	-0.4675067650072	0.0393712

Graph1

Cu - Dynamic Kubo Toyabe - Activation

Parameters-DKT

Parameter[X]	Value[Y]	Error[yEr]
1 A	-588.4067119343	65.08193557537
2 B	3.672643824176	0.6656561783994

Graph2

Cu - Abraham - Activation

Parameters-Abr

Parameter[X]	Value[Y]	Error[yEr]
1 A	-607.9675852887	154.8500302993
2 B	4.137035603956	1.065084417981

Algorithms

- Execute
- Algorithms
  - Absorption Corrections
  - Arithmetic
  - CorrectionFunctions
  - Crystal
  - CurveFitting
  - DataHandling
  - Diagnostics
  - Diffraction
  - Engineering
  - Examples
  - General
  - ICat
  - Muon
    - AlphaCalc v.1
    - AsymmetryCalc v.1
    - PlotAsymmetryByLogValue v.1
    - RemoveExpDecay v.1
  - Nexus
  - PythonAlgorithms
  - Rebin
  - SANS
  - Units

Details

# Project reloaded:

MantidPlot - M:\My Documents\mantid\copper activation energy calculation.mantid

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Workspaces

Results Log

Scripting Console

DynamicT

Temperature	HoppingRate	HoppingRateError	1overT[X]	lnHoppingRate[Y]	lnHoppingRateError
1	60	0.00402523	0.00316612	0.01666666666667	-5.515173226887
2	65	0.00523676	0.0031947	0.01538461538462	-5.252052292499
3	70	0.0118809	0.003297	0.01428571428571	-4.432823210341
4	75	0.00745003	0.00326582	0.01333333333333	-4.899537219753
5	80	0.0265151	0.00353281	0.0125	-3.63004089695
6	85	0.0251919	0.00352375	0.01176470588235	-3.681232764705
7	90	0.0552603	0.00400509	0.01111111111111	-2.89570053062

Abraham

Temperature	HoppingRate	HoppingRateError	1overT[X]	lnHoppingRate[Y]	lnHoppingRateError
1	100	0.251740788	0.013813759	0.01	-1.37935533991
2	190	2.100394664	0.072308835	1.005263157894737	0.7421252623099
3	180	1.586078041	0.04782012	1.005555555555556	0.4612643281811
4	170	1.302317343	0.037264842	1.005882352941176	0.2641452491109
5	160	1.068425152	0.029205077	0.00625	0.06618574372123
6	150	0.784196865	0.02161724	1.006666666666667	-0.2430951868366
7	140	0.62656249	0.018406336	1.007142857142857	-0.4675067650072

Graph1

Cu - Dynamic Kubo Toyabe - Activation

Value[Y]	Error[yEr]
88.4067119343	65.08193557537
67.2643824176	0.6656561783994

Graph2

Cu - Abraham - Activation

Parameters-Abr

Parameter[X]	Value[Y]	Error[yEr]	
1	0	-607.9675852887	154.8500302993
2	0	4.137035603956	1.065084417981

Algorithms

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Details