





Position HKLĖ [08-Mar-2016 15:12:21]  $[Q_{H}, Q_{K}, Q_{L}, E] = [1.0, 1.0, 0.0, array([ 0., 2.5, 5., 7.5, 10., 12.5, 15.])]$ 

 $[Q_H, Q_K, Q_L, E] = [1.0, 1.0, 0.0, analy([0.1, 2.3, 3.1, 7.3, 10.1, 12.3, 13.1])]$ 

Resolution Matrix M in [Q1,Q2,Qz,E] (M/10^4): [[9.0017[]-9.1153[]0.0000[]1.2309] [-9.1153[]11.8231[]0.0000[]-1.4360] [0.0000[]0.0000[]0.0635[]0.0000] [1.2309[]-1.4360[]0.0000[]0.1828]]

Resolution volume:  $V_0 = 0.000025 \text{ meV/A}^3$ 

Intensity prefactor:  $R_0 = 1831.893$ Bragg width in  $[Q_1,Q_2,E]$  (FWHM):

 $\delta Q_1$ =0.016  $\delta Q_2$ =0.014 [A-1]  $\delta E$ =0.110 [meV]

 $\delta Q_z$ =0.187 Vanadium width V=1.821 [meV]

Instrument parameters:

Method: Cooper-Nathans

DM = 3.354 ETAM= 25.000 SM=-1 KFIX= 2.663 FX = 2 SS=1

DA = 3.354 ETAA= 25.000 SA=-1

A1= -20.59 A2=-41.18 A3=-115.60 A4=30.01 A5=-20.59 A6=-41.18 [deg]

Collimation [arcmin]:

Horizontal: [40, 40, 40, 40] Vertical: [120, 120, 120, 120]

Sample:

a, b, c = [6, 7, 8] [Angs]

Alpha, Beta, Gamma = [90, 90, 90] [deg]

 $U = [1 \ 0 \ 0] [rlu] | V = [0 \ 1 \ 0] [rlu]$