



Method: Cooper-Nathans

Position HKLE [15-Dec-2016 11:36:50]

[Q_H, Q_K, Q_L, E] = [1.0, 1.0, 0.0, array([0. , 2.5, 5. , 7.5, 10. , 12.5, 15.])]

Resolution Matrix M in [Q1,Q2,Qz,E] (M/10⁴):

[[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 meV/Å³

Intensity prefactor: R_0=1831.893

Bragg width in [Q_1, Q_2, E] (FWHM):

dQ_1=0.016 dQ_2=0.014 [Å⁻¹] dE=0.110 [meV]

dQ_z=0.187 Vanadium width V=1.821 [meV]

Instrument parameters:

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]