

Isotropic_Sqw data format

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# Sqw data file for Isotropic_Sqw
# liquid He4: coherent part, no incoherent, atomic number 2
# Elementary Excitation Data by R.J. Donnelly et al., J. Low Temp. Phys., 44 (1981) 471
# WARNING: line width is constant, intensity is not right
#
# Physical parameters:
# V_rho      0.072    atom density per Angs^3
# weight     4.002    in [g/mol]
# density     0.4784   in [g/cm^3]
# sigma_abs   0.00747  absorption scattering cross section in [barn]
# sigma_coh   1.34     coherent scattering cross section in [barn]
# sigma_inc   0        incoherent scattering cross section in [barn]
# Temperature 2        in [K]
# classical   0        experimental, contains Bose factor
#
# q axis values
# vector of m values in Angstroem-1
0.001000 0.011000 0.02 ...
# w axis values
# vector of n values in meV
0.001391 0.011391 0.021391 0.0313 ...
# sqw values (one line per q axis value)
# matrix of S(q,w) values (m rows x n values), one line per q value
9.721422 10.599145 11.344954 ...
```

He4_liq_coh.sqw

