17-Jan-2007

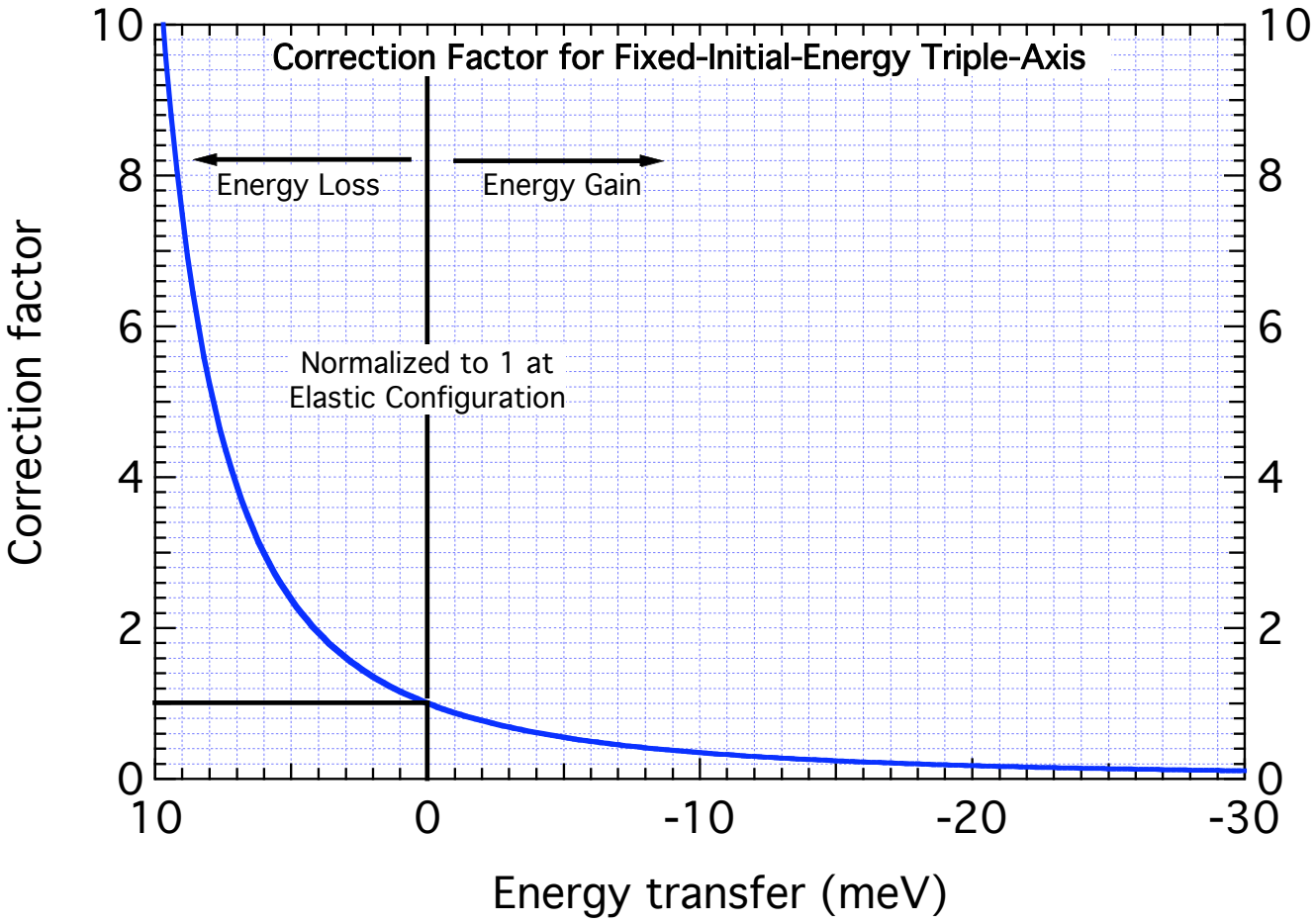
Correction to fixed-E_0 scattered intensity;

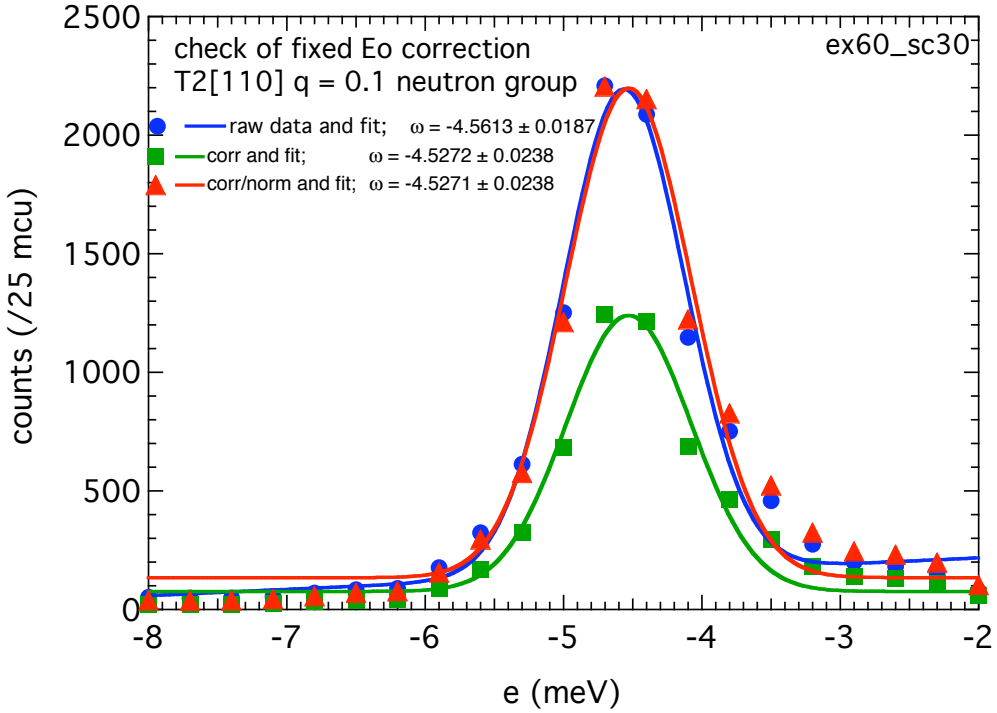
$F(k_f) = R_A(k_f)k_f^3 / \tan\theta_A$ where R_A = analyzer reflectivity

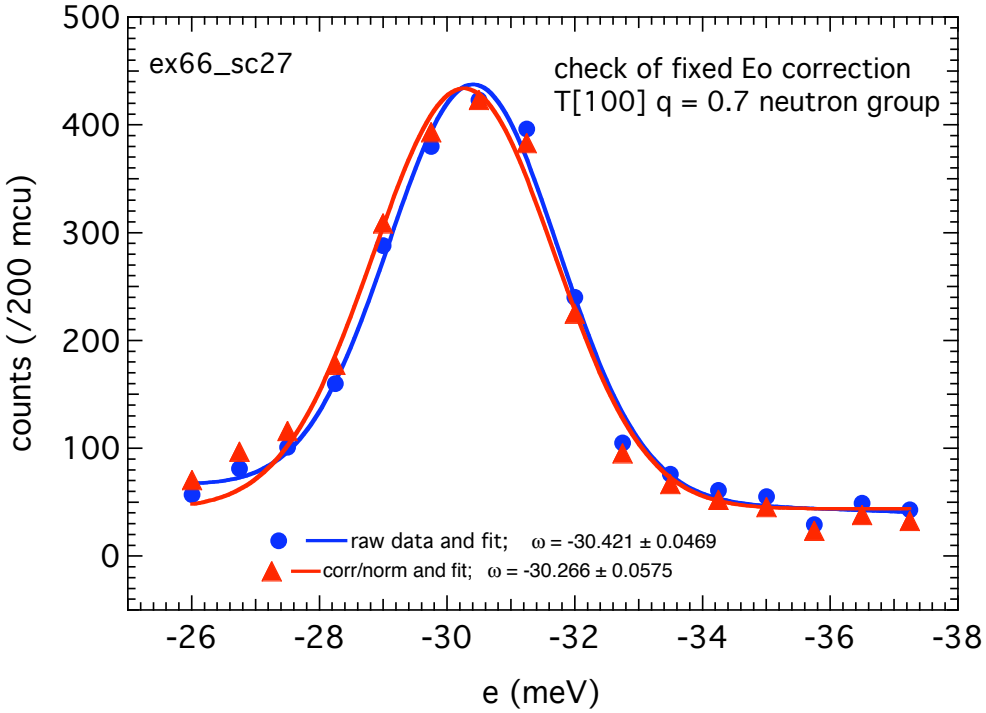
correction (normalized) $= \dfrac{k_i^3 \cot\theta_{A(\Delta E=0)}}{k_f^3 \cot\theta_A}$

17-Jan-2006
J.L. Zarestky

$$correction(normalized) = \frac{k_i^3 \cot\theta_{A(\Delta E=0)}}{k_f^3 \cot\theta_A}$$




check of fixed Eo correction
T2[110] q = 0.1 neutron group
ex60_sc30
raw data and fit; ω = -4.5613 ± 0.0187
corr and fit; ω = -4.5272 ± 0.0238
corr/norm and fit; ω = -4.5271 ± 0.0238
counts (/25 mcu)
e (meV)


ex66_sc27
check of fixed Eo correction
T[100] q = 0.7 neutron group
raw data and fit; ω = -30.421 ± 0.0469
corr/norm and fit; ω = -30.266 ± 0.0575
counts (/200 mcu)
e (meV)