Scattering from Dilute, Perfect, Monodisperse Objects Yields Interference Between Internal Structures (Form Factor)

\[ I(q) = N n^2 \left[ \frac{(3 \sin Q - Q \cos Q)}{Q^3} \right]^2 \]

\[ Q = R q = R \left( \frac{4\pi}{\lambda} \sin \left( \frac{\theta}{2} \right) \right) \]

Graph showing intensity vs. q (Å⁻¹) for different scattering models.