

Guinier plot

A diagrammatic representation of data on scattering from large particles, obtained at different angles but at the same concentration, constructed by plotting $\log_{10}\Delta R(\theta)$ or $\log_{10}P(\theta)$ versus $(\sin \frac{\theta}{2})^2$ or q^2 and (usually) used for the evaluation of the radius of gyration. $\Delta R(\theta)$ is the excess Rayleigh ratio, $P(\theta)$ the particle scattering function, θ the scattering angle and q the length of the scattering vector.

Source:

Purple Book, p. 67