Figure 1: Geometrical equivalence of the Ewald sphere curvature (blue) and the

For example, for a 200 keV electron beam ($\lambda \approx 0.025 \,\text{Å}$) and $k = 1 \,\text{Å}^{-1}$, the

angle is $\theta \approx 0.025 \,\mathrm{rad}$.

first Born approximation of the multislice formalism (black). The black curve represents the complex-valued exitwave, $\psi_{\rm exit}$, that is mapped onto a paraboloid in Fourier space (Eq. (??)). At a small angle, $\theta \approx \lambda k$, the surface of the paraboloid approaches that of the Ewald sphere since $k_z = \tan \frac{\theta}{2} \approx \frac{k\theta}{2} = \frac{\lambda k^2}{2}$.