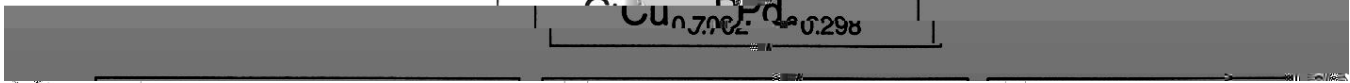


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$$\alpha_{\text{calc}}(k, N_{\text{CF}} = 21),$$

$$\text{Ga}_{0.5}\text{In}_{0.5}\text{P}_x$$

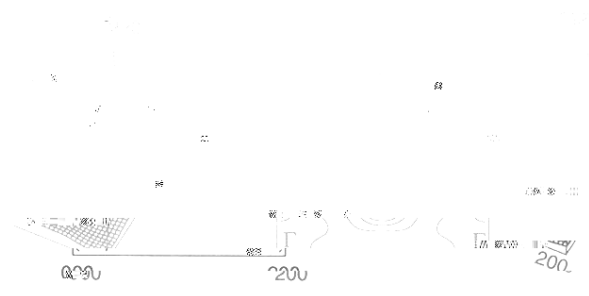


Figure 1: Calculated structure factor $\alpha_{\text{calc}}(k, N_{\text{CF}} = 21)$ for $\text{Ga}_{0.5}\text{In}_{0.5}\text{P}_x$ at $T = 250$ K using a cutoff radius $r_{\text{cut}} = 1$ nm. The plot shows the structure factor as a function of the wave vector k and the number of correlated functions N_{CF} .

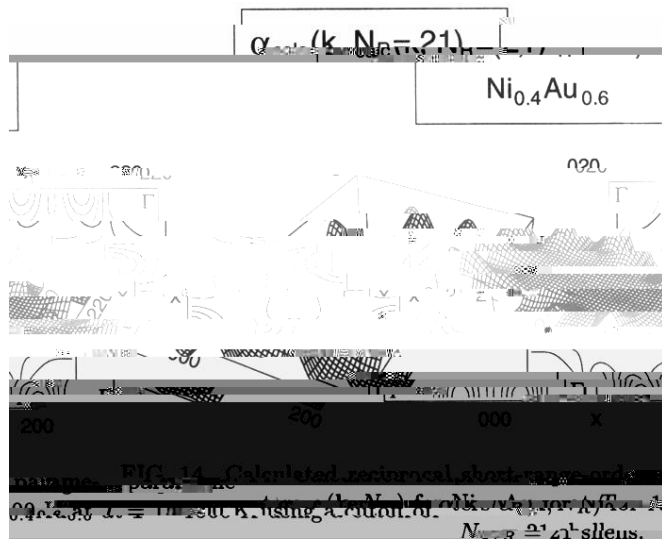


FIG. 14. Calculated eigenfrequencies and wave numbers for $N=21$ silens. The plot shows the calculated eigenfrequencies and wave numbers for the $N=21$ silens. The x-axis is labeled 'x' and the y-axis is labeled 'y'. The z-axis is labeled 'z'. The plot is titled 'α (k, N=21)' and 'Ni_{0.4}Au_{0.6}'.



