Structure factors

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Analytical structure factor of 1D lattice

The length of the cell $L = 1$. The number of particles $N = 2, 3, ..., 10$.

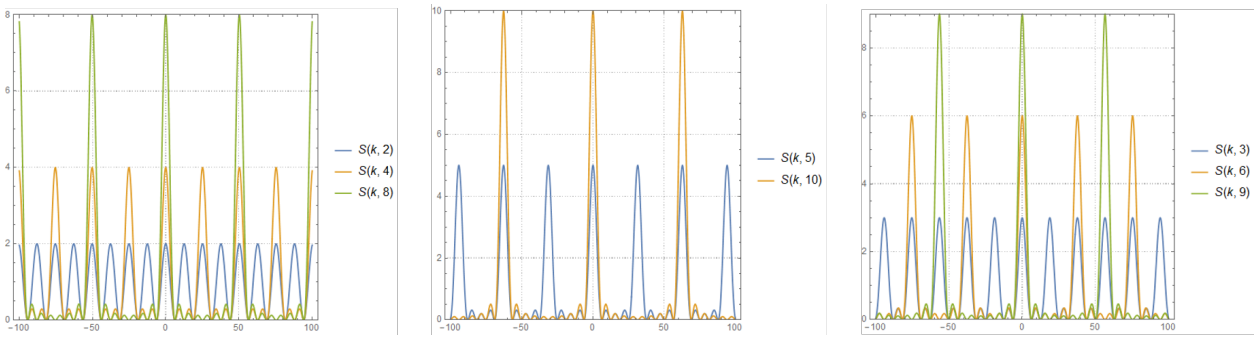

Figure 1: The analytical $S(k)$ of 1D lattice.

Equilibrium 3D hard spheres

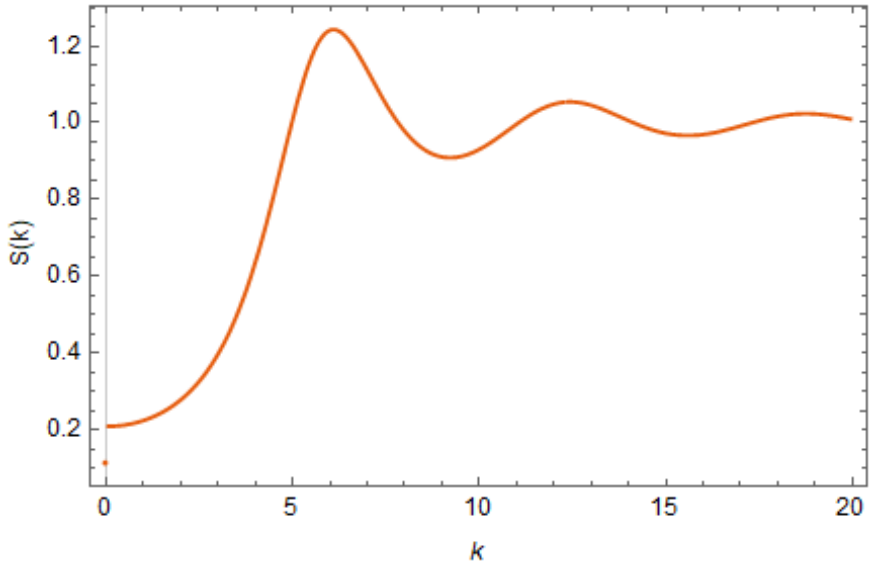

Figure 2: The theoretical $S(k)$ for equilibrium 3D hard spheres in the PY approximation with $\Phi = 0.2$.