

Remarks on the Lattice Green's Function for the Anisotropic Face Centered Cubic Lattice

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Abstract : An expression for the Green's function (GF) of anisotropic face centered cubic (IFCC) lattice is evaluated analytically and numerically for a single impurity problem. The density of states (DOS), phase shift and scattering cross section are expressed in terms of complete elliptic integrals of the first kind.

Keywords : lattice Green's function, elliptic integral, physics, cubic lattice

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