2.15 Integer lattices literature

There are many reasons why one needs to compute an "orbit Jacobian matrix" Hill determinant $|\mathrm{Det}\,\mathcal{J}|$, in fields ranging from number theory to engineering, and many methods to accomplish that:

discretizations of Helmholtz [58] and screened Poisson [59, 80, 96, 97] (also known as Klein–Gordon or Yukawa) equations

Green's functions on integer lattices [5, 8, 24, 33, 37, 40, 63, 67, 78, 92, 93, 115–117, 135, 140, 143, 149, 150, 159, 180, 196]

Gaussian model [71, 111, 139, 172]

linearized Hartree-Fock equation on finite lattices [121]

quasilattices [29, 69]

circulant tensor systems [33, 37, 146, 164, 166, 200]

Ising model [19, 88, 89, 98, 100, 103–105, 128, 136, 141, 153, 161, 199], transfer matrices [154, 199]

lattice field theory [108, 144, 148, 151, 168, 175, 176, 192]

modular transformations [34, 205]

lattice string theory [77, 157]