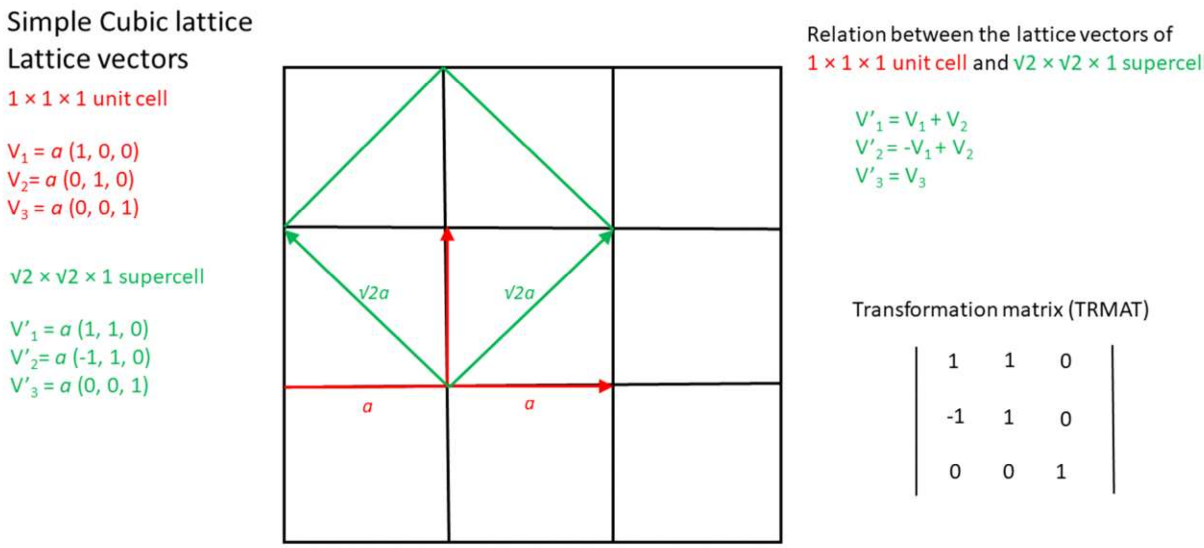

Fig. 1: Relation between the lattice vectors of 1 × 1 × 1 unit cell and √2 × √2 × 1 supercell and the corresponding transformation matrix of simple cubic lattice.

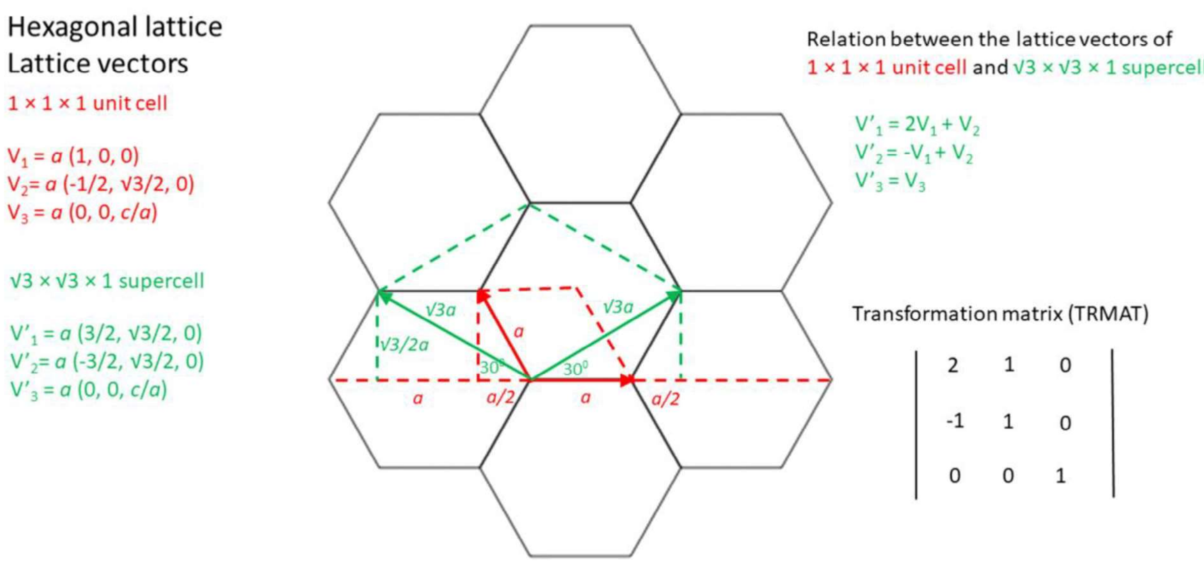

Fig. 2: Relation between the lattice vectors of 1 × 1 × 1 unit cell and √3 × √3 × 1 supercell and the corresponding transformation matrix of hexagonal lattice.