

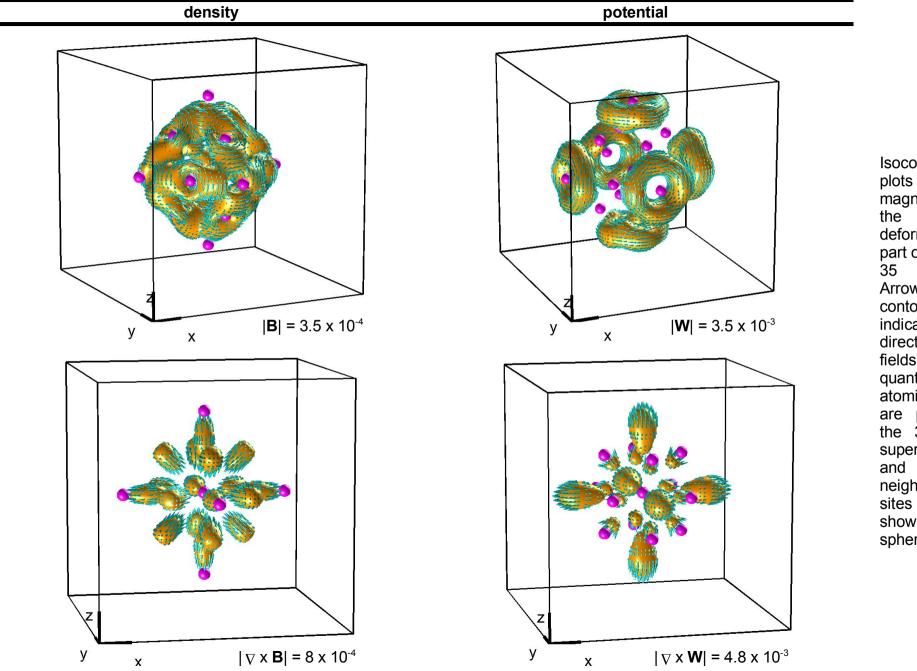
Yellow denotes a positive and blue a negative isosurface The of and nearest neigbor atoms are indicated by small pink the density clearly nonproperties at low contours, the potential is

more

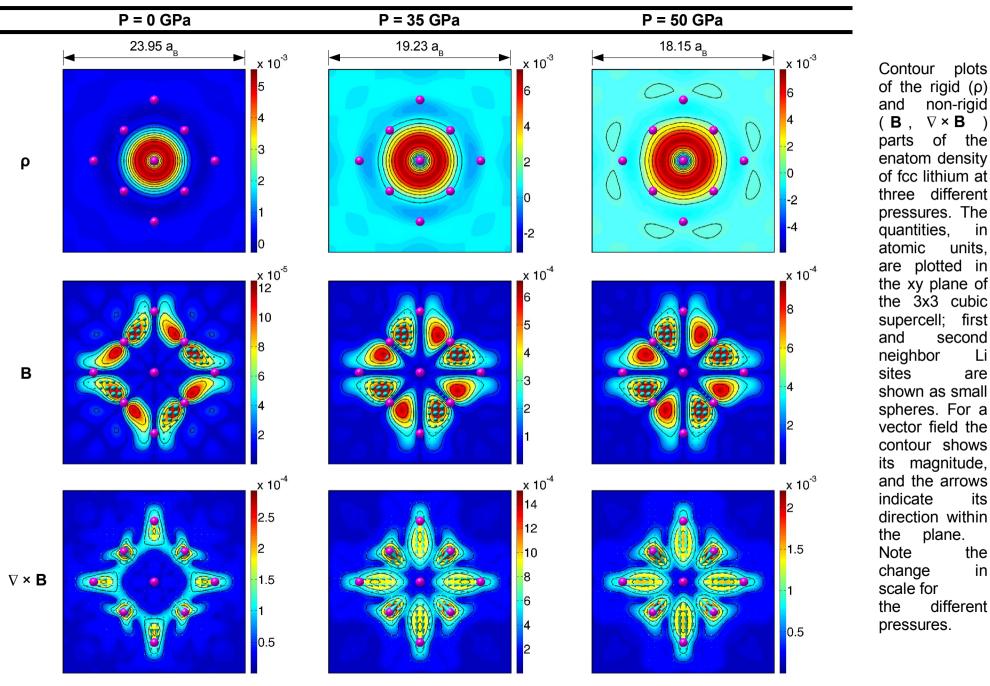
nearly spherical. local

cubic

## The *Deformation Part* of the Enatom in Lithium at P = 35 GPa



Isocontour plots of the magnitude of deformation part of Li at GPa. Arrows on the contours indicate the direction of the fields. The quantities, in atomic units, are plotted in the 3x3 cubic supercell; first second neighbor Li are shown as small spheres.

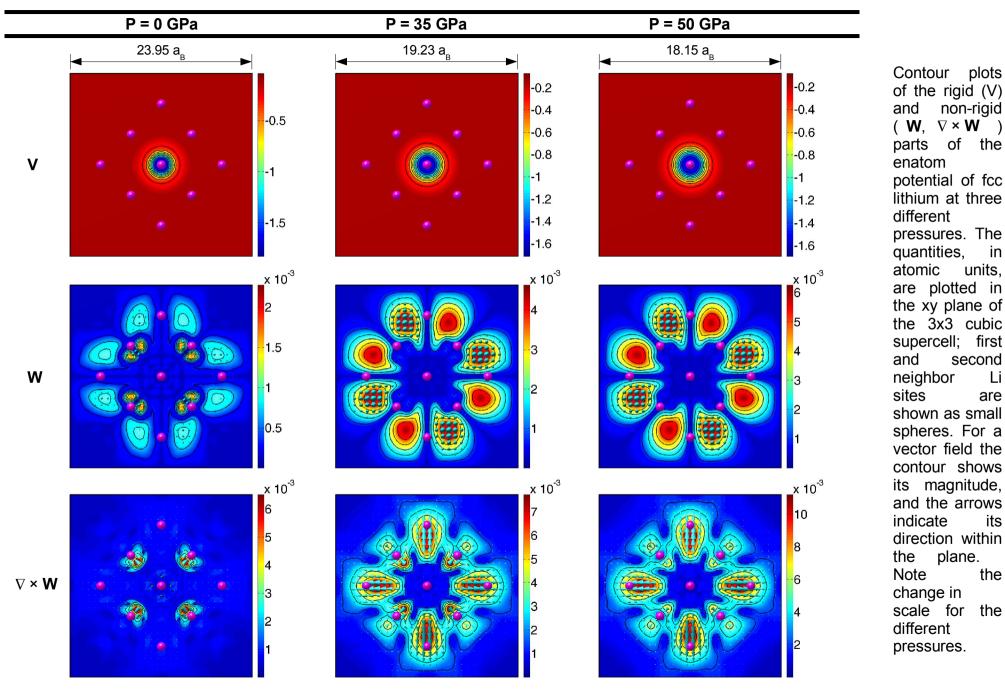


## The Pressure Evolution of the Enatom *Density* in Lithium

(**B**, ∇×**B**) parts of the enatom density of fcc lithium at three different pressures. The quantities. in atomic units. are plotted in the xy plane of the 3x3 cubic supercell; first and second neighbor Li sites are shown as small spheres. For a vector field the contour shows its magnitude, and the arrows indicate its direction within plane. Note the change in scale for different pressures.

plots

non-rigid



in

second

Li

are

its

the

## The Pressure Evolution of the Enatom *Potential* in Lithium