**The drawAtoms() method:**

drawAtoms() is a PyFireball-specific wrapper for calls to mayavi.mlab() in order to render atoms, groups, neighbours of atoms, charge correlation, etc.

call line and default arguments:

drawAtoms(supercell, atomList, andIsoSurface = False, numNN = 6, implicitBonds = False, chargeCloud = False, chargeLabel = False, nameLabel = False, speciesLabel = False, numLabel = False, atomsAlso = True, secretZero = False)

*Arguments:*

supercell -supercell object the supercell the atoms belong to.

atomList -list of atom objects list of atoms to be rendered

*Keyword Arguments:*

andIsoSurface -boolean plots isoSurface density from xsf File (N.I.)

numNN - int plots N nearest neighbours of each atom in atomList

implicitBonds -boolean draws bonds between atoms in list (by order of entry) / neighbours

chargeCloud -boolean draws a semitransparent sphere representing the atom charge

chargeLabel -boolean label each atom with it’s charge

nameLabel -boolean label each atom with it’s atom details

speciesLabel -boolean label each atom with it’s species name

numLabel -boolean label each atom with it’s atom number

atomsAlso -boolean for use with chargeCloud, turns off atoms, leaving only cloud

secretZero -boolean chargeCloud renders on normalized charges… this adds a zero point so you can see the difference between small charges.