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*Graphical Abstract

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do i = 1,nmolecules do ii = 1,nmolecules do jj = 1,nmolecules do jj = 1,natoms(j) lcalculate = .true. if (i .eq. j .and. jj .le. ii) then lcalculate = .false. elseif (i .eq. j .and. bbonded(i,ii,jj)) then lcalculate = .false. endif if (lcalculate) then dx = x(i,ii) - x(j,jj) dy = y(i,ii) - y(j,jj) dz = z(i,ii) - z(j,jj) dx = dx - anint(dx/boxlength)*boxlength dy = dy - anint(dy/boxlength)*boxlength dz = dz - anint(dz/boxlength)*boxlength rij = sqrt(dx**2 + dy**2 + dz**2) sig = sigma(i,ii,j,jj) energy = energy + 4.0*eps*((sig/rij)**12-(sig/rij)**6) endif enddo enddo enddo enddo

energy = 0.0

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