

Figure S2: Poisson ratio analysis Similar plot as Figure 3A for different values for Poisson ratio (A)  $\nu = 0$ , (B)  $\nu = 0.2$ , (C)  $\nu = 0.4$ . In the force/material anisotropy space the region where principal directions

of stress and strain are perpendicular is larger for lower values of Poisson ratio