

Fig. 1: Crosslinking analysed for another two projection vectors. a) Fluorescence image of an entangled actin network connected to a hexagonal pattern of PLL-coated beads, before crosslinking occures. White arrow indicates the projection vector for force curves in d). b) After $\approx 20s$ of recording the diffusion of magnesium ions into the microreaction chamber was initiated. At the time of 140s the actin network is completely crosslinked. c) Arrows illustrate the direction of force due to the contractile force effect of crosslinking after 140s. For the colored arrows d) shows the force curves for the respective beads. White arrows indicate the direction of forces for the other projection vectors. d) Selected force curves for Bead 1, 4, 7 (5, 4, 3, respectively) along projection vector in a). Displacements of the beads are measured with 20s frames per second.