

## Dynamics and memory of boundary stresses in discontinuous shear thickening suspensions during oscillatory shear

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### Supplementary Material

#### Supplementary Movie Captions

**Supplementary Movie 1:** Spatiotemporal dynamics of high stress events revealed by boundary stress measurements at frequency ( $\omega$ ) = 1 and strain ( $\gamma_o$ ) = 26, for  $\phi = 0.56$ . The total time elapsed is 150s having total 24 cycles. The corresponding snapshots are shown in Figure 4. The movie is played at 15 fps.

**Supplementary Movie 2:** Spatiotemporal dynamics of high stress events revealed by boundary stress measurements at frequency ( $\omega$ ) = 1 and strain ( $\gamma_o$ ) = 50, for  $\phi = 0.56$ . The total time elapsed is 150s having total 24 cycles. The corresponding snapshots are shown in Figure 5. The movie is played at 15 fps.

**Supplementary Movie 3:** Spatiotemporal dynamics of high stress events revealed by boundary stress measurements at frequency ( $\omega$ ) = 10 and strain ( $\gamma_o$ ) = 9, for  $\phi = 0.56$ . The total time elapsed is 90s having total 144 cycles. The corresponding snapshots are shown in Figure 9. The movie is played at 9 fps.

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