Supplementary Information: Movie Caption

Acoustic resonance in periodically sheared glass

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Movie

In the movie, we show time evolution in the first ten cycles ($0 < t < 10t_p$) for $d = 0.3$, $\omega = 0.155$, and $N = 4000$. Depicted are the incremental changes of the particle positions,

$$\Delta \boldsymbol{r}_i(t, \Delta t) = \boldsymbol{r}_i(t + \Delta t) - \boldsymbol{r}_i(t) \quad (t/\Delta t = 0, 1, 2, \cdots, \quad t/t_p \leq 10),$$

where $\Delta t = t_p/40 \cong 1.0$. Thus, the movie shows the velocities of the particles. We can see that the waves grow with lots of irregularities. Time-evolution of the kinetic energy $K(t)$, the potential energy $U(t)$, and the sum $H(t) = K(t) + U(t)$ of the particles in the cell can be seen in Fig.1 in the text.