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## Pursuing Colloidal Diamond Supplementary Movies

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- Movie S1 Time evolution of the external field-driven assembly from disordered state to the formation of stacking hybrids of cubic and hexagonal diamond for the system with  $\xi=0.4$  at  $T^*=0.30$ .
- Movie S2 Time evolution of the external field-driven assembly from disordered state to the selective formation of cubic diamond for the system with  $\xi=1.0$  at  $T^*=0.30$ .