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Conclusions Under the biasing restrictions, pure liquid benzoic acid condenses by increasing its density and forming hydrogen-bonded clusters of irregular shape and multiform size A solvated liquid droplet freezes to an amorphous semi-solid, into a compact form held together mainly by the dispersive potentials. A microcrystal slab preserves its symmetric stability under biased dynamic conditions, while an unbiased simulation quickly runs into a liquid drop. This last point strongly suggests (one could say demonstrates) that isolated clusters cannot be crystalline, contrary to hypotheses embedded into classical nucleation theory The KB algorithm drives the system toward aggregation, not symmetrization fat least at these very short time scales) 16.12.2021, ICG2021, Torino, Italy



Thank you for your kind attention

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