

Abstract Submitted  
for the DFD15 Meeting of  
The American Physical Society

**Instant freezing of impacting wax drops** ALEXANDRE PONOMARENKO, EMMANUEL VIROT, SHMUEL RUBINSTEIN, Harvard University — We present the impact of hot liquid drops of wax on surfaces whose temperature is below the solidifying temperature of the drops. During the fall the drops remain mostly liquid, but upon impact, their temperature quickly decreases resulting in the solidification of the drop. Depending on the impact energy, drops size and the temperature difference between the drop and the surface this results in plethora of solid shapes: simple lenses, triangular drops, spherical caps and popped popcorn shapes.

Alexandre Ponomarenko  
Harvard University

Date submitted: 31 Jul 2015

Electronic form version 1.4