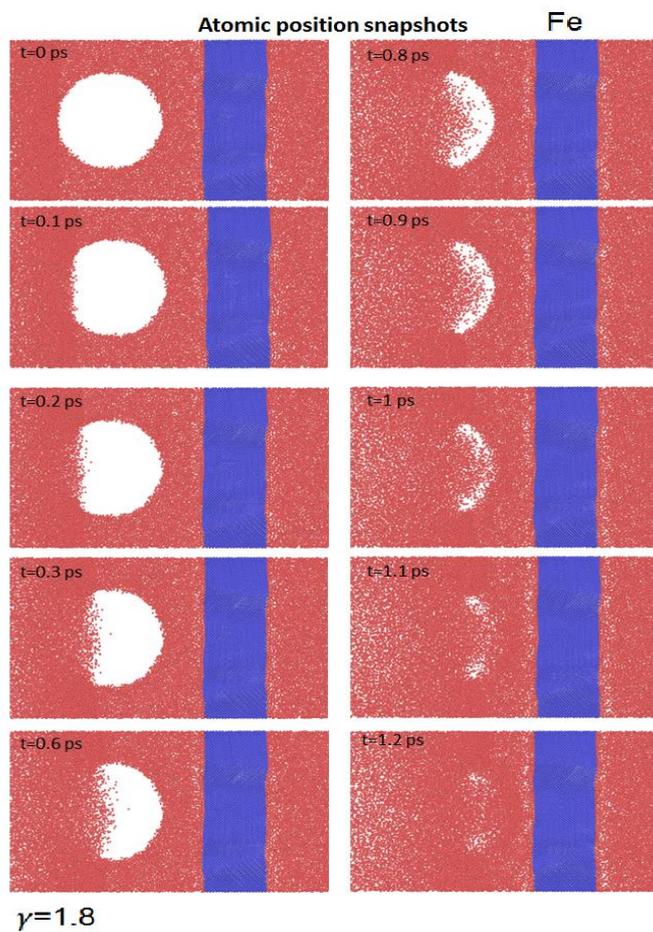
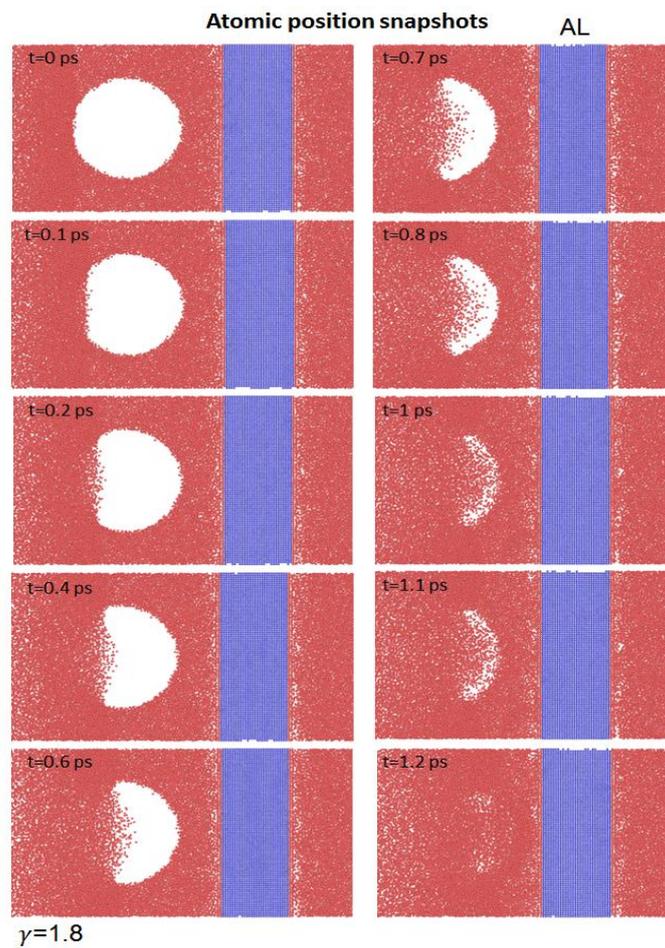


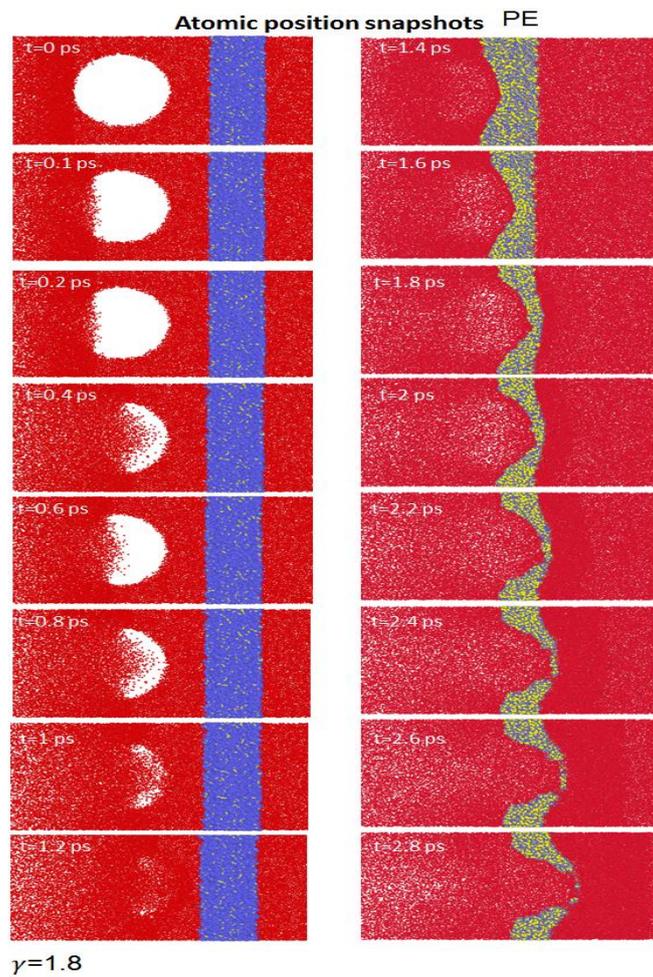
## Supplementary Materials:



**Figure S1:** Atomic position snapshots of the collapse dynamics of a single nanobubble near Iron (Fe) at relative wall distance  $\gamma = 1.8$



**Figure S2:** Atomic position snapshots of the collapse dynamics of a single nanobubble near Aluminum (Al) at relative wall distance  $\gamma = 1.8$



**Figure S3:** Atomic position snapshots of the collapse dynamics of a single nanobubble near Polyethylene (PE) at relative wall distance  $\gamma = 1.8$